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OM protein - protein search, using sw model

Run on: October 19, 2004, 09:04:37 ; Search time 22.6411 Seconds  
(without alignments)  
304.626 Million cell updates/sec

Title: US-09-622-613C-2  
Perfect score: 578  
Sequence: 1 QDWLTFOKKHLNTRDVCN.....TFCVTCENQAPVHFVGSHC 104

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 478139 seqs, 66318000 residues

Total number of hits satisfying chosen parameters: 478139

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA.\*

1: /cgn2\_6/ptodata/1/iaa/5A\_COMB.pep.\*  
2: /cgn2\_6/ptodata/1/iaa/5B\_COMB.pep.\*  
3: /cgn2\_6/ptodata/1/iaa/6A\_COMB.pep.\*  
4: /cgn2\_6/ptodata/1/iaa/6B\_COMB.pep.\*  
5: /cgn2\_6/ptodata/1/iaa/PTCUS\_COMB.pep.\*  
6: /cgn2\_6/ptodata/1/iaa/backfiles1.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	558	96.5	104	1	US-08-467-955-2
2	556	96.2	104	3	US-09-394-268-1
3	556	96.2	104	4	US-09-687-748-1
4	556	96.2	104	4	US-08-626-288-1
5	556	96.2	104	4	US-09-095-429-1
6	556	96.2	129	3	US-08-875-811-63
7	556	96.2	379	3	US-08-875-811-43
8	553	95.7	104	1	US-08-283-971-1
9	553	95.7	104	1	US-07-921-619-1
10	553	95.7	104	1	US-08-467-955-1
11	553	95.7	104	2	US-08-891-848-13
12	553	95.7	105	3	US-08-875-811-39
13	553	95.7	355	3	US-08-875-811-41
14	553	95.7	358	3	US-08-875-811-51
15	551	95.3	104	3	US-08-875-811-1
16	551	95.3	104	3	US-09-071-672-1
17	551	95.3	104	4	US-09-986-119-1
18	551	95.3	106	3	US-08-875-811-28
19	551	95.3	107	3	US-08-875-811-30
20	551	95.3	112	3	US-08-875-811-32
21	551	95.3	251	3	US-08-875-811-59
22	551	95.3	254	3	US-08-875-811-61
23	551	95.3	355	3	US-08-875-811-49
24	551	95.3	355	3	US-08-875-811-57
25	551	95.3	355	3	US-08-875-811-64
26	551	95.3	366	3	US-08-875-811-55
27	548	94.8	104	3	US-09-394-268-2

28 548 94.8 104 4 US-09-687-748-2 Sequence 2, Appli  
29 548 94.8 104 4 US-08-626-288-2 Sequence 2, Appli  
30 548 94.8 104 4 US-09-095-429-2 Sequence 2, Appli  
31 546 94.5 105 3 US-08-875-811-24 Sequence 24, Appli  
32 546 94.5 105 3 US-08-875-811-26 Sequence 26, Appli  
33 542 93.8 358 3 US-08-875-811-45 Sequence 45, Appli  
34 542 93.8 365 3 US-08-875-811-53 Sequence 53, Appli  
35 527 91.2 107 3 US-08-875-811-20 Sequence 20, Appli  
36 490 84.8 360 3 US-08-875-811-47 Sequence 47, Appli  
37 483.5 83.7 111 3 US-08-875-811-22 Sequence 22, Appli  
38 445 77.0 83 3 US-08-875-811-2 Sequence 2, Appli  
39 445 77.0 83 3 US-09-071-672-3 Sequence 3, Appli  
40 445 77.0 83 4 US-09-986-119-3 Sequence 3, Appli  
41 289 50.0 111 2 US-08-891-848-12 Sequence 12, Appli  
42 289 50.0 111 3 US-08-875-811-8 Sequence 8, Appli  
43 217.5 37.6 114 3 US-09-223-118-4 Sequence 4, Appli  
44 205.5 35.6 114 3 US-09-223-118-2 Sequence 2, Appli  
45 204.5 35.4 114 3 US-09-223-118-1 Sequence 1, Appli

## ALIGNMENTS

RESULT 1  
US-08-467-955-2  
; Sequence 2, Application US/08467955  
; Patent No. 5728805  
; GENERAL INFORMATION:  
; APPLICANT: Ardelt Ph.D, Wojciech J.  
; TITLE OF INVENTION: PHARMACEUTICALS AND METHOD FOR MAKING THEM  
; NUMBER OF SEQUENCES: 2  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Mark H. Jay, P.A.  
; STREET: P.O. Box E  
; CITY: Short Hills  
; STATE: New Jersey  
; COUNTRY: USA  
; ZIP: 07078-0383  
; COMPUTER READABLE FORM: disk  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.24  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/467,955  
; FILING DATE:  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/178,118  
; FILING DATE: 06-APR-1988  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/436,141  
; FILING DATE: 13-NOV-1989  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/814,332  
; FILING DATE: 03-FEB-1992  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/283,970  
; FILING DATE: 01-AUG-1994  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Jay, Mark H.  
; REGISTRATION NUMBER: 27507  
; REFERENCE/DOCKET NUMBER: 5007 US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 201-912-9066  
; TELEFAX: 201-912-0442  
; TELEX: No. 5728805 Applicable  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 104 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear

MOLECULE TYPE: protein  
HYPOTHETICAL: N  
ANTI-SENSE: N  
FRAGMENT TYPE: N-terminal  
ORIGINAL SOURCE:  
ORGANISM: Rana pipiens  
DEVELOPMENTAL STAGE: Oocyte  
US-08-467-955-2

Query Match 96.2%; Score 556; DB 4; Length 104;  
Best Local Similarity 96.2%; Pred. No. 5e-60;  
Matches 100; Conservative 2; Mismatches 0; Gaps 0;

QY 1 QDWLTFQKKHLNTRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60  
DB 1 QDWLTFQKKHLNTRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60

QY 61 SEFYLSDCNVTSPCKYKLLKSTNTFCVTCENQAPVHFVGVGHC 104  
DB 61 SEFYLSDCNVTSPCKYKLLKSTNTFCVTCENQAPVHFVGVGSC 104

RESULT 4  
US-08-626-288-1  
; Sequence 1, Application US/08626288  
; Patent No. 6649392  
; GENERAL INFORMATION:  
; APPLICANT: Youle, Richard  
; APPLICANT: Vasandani, Veena  
; APPLICANT: Wu, Yon-Neng  
; APPLICANT: Boix, Ester  
; APPLICANT: Ardelt, Wojciech  
; TITLE OF INVENTION: A Mutant Form of Cytotoxic Protein Which  
; TITLE OF INVENTION: Allows Production by Recombinant Methods  
; NUMBER OF SEQUENCES: 3  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Townsend and Townsend and Crew  
; STREET: One Market Plaza, Steuart Street Tower  
; CITY: San Francisco  
; STATE: California  
; COUNTRY: USA  
; ZIP: 94105-1492  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/626,288  
; FILING DATE: No. 6649392 yet assigned  
; CLASSIFICATION: 530  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Ran, David B.  
; REGISTRATION NUMBER: 38,589  
; REFERENCE/DOCKET NUMBER: 15280-267  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (415) 543-9600  
; TELEFAX: (415) 543-5043  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 104 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; US-08-626-288-1

Query Match 96.2%; Score 556; DB 4; Length 104;  
Best Local Similarity 96.2%; Pred. No. 5e-60;  
Matches 100; Conservative 2; Mismatches 0; Gaps 0;

QY 1 QDWLTFQKKHLNTRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60  
DB 1 QDWLTFQKKHLNTRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60

QY 61 SEFYLSDCNVTSPCKYKLLKSTNTFCVTCENQAPVHFVGVGHC 104  
DB 61 SEFYLSDCNVTSPCKYKLLKSTNTFCVTCENQAPVHFVGVGSC 104

RESULT 5

MOLECULE TYPE: protein  
HYPOTHETICAL: N  
ANTI-SENSE: N  
FRAGMENT TYPE: N-terminal  
ORIGINAL SOURCE:  
ORGANISM: Rana pipiens  
DEVELOPMENTAL STAGE: Oocyte  
US-08-467-955-2

Query Match 96.5%; Score 558; DB 1; Length 104;  
Best Local Similarity 96.2%; Pred. No. 2.9e-60;  
Matches 100; Conservative 2; Mismatches 0; Gaps 0;

QY 1 QDWLTFQKKHLNTRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60  
DB 1 EDWLTFQKKHLNTRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60

QY 61 SEFYLSDCNVTSPCKYKLLKSTNTFCVTCENQAPVHFVGVGHC 104  
DB 61 SEFYLSDCNVTSPCKYKLLKSTNTFCVTCENQAPVHFVGVGRC 104

RESULT 2  
US-09-394-268-1  
; Sequence 1, Application US/09394268  
; Patent No. 6175003  
; GENERAL INFORMATION:  
; APPLICANT: Saxena, Shailendra K  
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING RIBONUCLEASES AND METHODS OF  
; TITLE OF INVENTION: MAKING THEM  
; FILE REFERENCE: 5013  
; CURRENT APPLICATION NUMBER: US/09/394,268  
; CURRENT FILING DATE: 1999-09-10  
; NUMBER OF SEQ ID NOS: 8  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 1  
; LENGTH: 104  
; TYPE: PRT  
; ORGANISM: Rana pipiens  
; US-09-394-268-1

Query Match 96.2%; Score 556; DB 3; Length 104;  
Best Local Similarity 96.2%; Pred. No. 5e-60;  
Matches 100; Conservative 2; Mismatches 0; Gaps 0;

QY 1 QDWLTFQKKHLNTRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60  
DB 1 QDWLTFQKKHLNTRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60

QY 61 SEFYLSDCNVTSPCKYKLLKSTNTFCVTCENQAPVHFVGVGHC 104  
DB 61 SEFYLSDCNVTSPCKYKLLKSTNTFCVTCENQAPVHFVGVGSC 104

RESULT 3  
US-09-687-748-1  
; Sequence 1, Application US/09687748  
; Patent No. 6423515  
; GENERAL INFORMATION:  
; APPLICANT: Saxena, Shailendra K  
; TITLE OF INVENTION: METHODS OF MAKING NUCLEIC ACIDS ENCODING RIBONUCLEASES  
; FILE REFERENCE: 5013 US 01  
; CURRENT APPLICATION NUMBER: US/09/687,748  
; CURRENT FILING DATE: 2000-10-14  
; PRIOR APPLICATION NUMBER: 09/394,268  
; PRIOR FILING DATE: 1999-09-10  
; NUMBER OF SEQ ID NOS: 8  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 1  
; LENGTH: 104  
; TYPE: PRT  
; ORGANISM: Rana pipiens  
; US-09-687-748-1

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US-09-095-429-1
; Sequence 1, Application US/09095429
; Patent No. 6649393
; GENERAL INFORMATION:
; APPLICANT: Youle, Richard
; APPLICANT: Vasandani, Veena
; APPLICANT: Wu, Yon-Neng
; APPLICANT: Boix, Ester
; APPLICANT: Ardel, Wojciech
; TITLE OF INVENTION: A Mutant Form of Cytotoxic Protein Which
; TITLE OF INVENTION: Allows Production by Recombinant Methods
; NUMBER OF SEQUENCES: 3
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew
; STREET: One Market Plaza, Steuart Street Tower
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94105-1492
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/095,429
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/626,288
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Ran, David B.
; REGISTRATION NUMBER: 38,589
; REFERENCE/DOCKET NUMBER: 15280-267
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 543-9600
; TELEFAX: (415) 543-5043
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 104 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-095-429-1

Query Match          96.2%; Score 556; DB 4; Length 104;
Best Local Similarity 96.2%; Pred. No. 5e-60;
Matches 100; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY      1 QDWLTQKKHLNTRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLTT 60
Db      1 QDWLTQKKHLNTRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLTT 60

QY      61 SEFYLSDCNVTSPCKYKLLKSTNTFCVTCENQAPVHFVGVGHC 104
Db      61 SEFYLSDCNVTSPCKYKLLKSTNTFCVTCENQAPVHFVGVGSC 104

RESULT 6
US-08-875-811-63
; Sequence 63, Application US/08875811
; Patent No. 6045793
; GENERAL INFORMATION:
; APPLICANT: Rybak, Susanna M.
; APPLICANT: Newton, Dianne L.
; APPLICANT: Boque, Lluís
; APPLICANT: Wlodawer, Alexander
; TITLE OF INVENTION: Recombinant Ribonuclease Proteins
; NUMBER OF SEQUENCES: 64
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP

```

```

; STREET: Two Embarcadero Center, Eighth Floor
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/875,811
; FILING DATE: 19-FEB-1998
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: WO PCT/US97/02588
; FILING DATE: 19-FEB-1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/011,800
; FILING DATE: 21-FEB-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Faris, Susan K.
; REGISTRATION NUMBER: 41,739
; REFERENCE/DOCKET NUMBER: 015280-244100US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 576-0200
; TELEFAX: (415) 576-0300
; INFORMATION FOR SEQ ID NO: 63:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 129 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-875-811-63

Query Match          96.2%; Score 556; DB 3; Length 129;
Best Local Similarity 96.2%; Pred. No. 6.7e-60;
Matches 100; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY      1 QDWLTQKKHLNTRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLTT 60
Db      26 QDWLTQKKHLNTRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLTT 85

QY      61 SEFYLSDCNVTSPCKYKLLKSTNTFCVTCENQAPVHFVGVGHC 104
Db      86 SEFYLSDCNVTSPCKYKLLKSTNTFCVTCENQAPVHFVGVGSC 129

RESULT 7
US-08-875-811-43
; Sequence 43, Application US/08875811
; Patent No. 6045793
; GENERAL INFORMATION:
; APPLICANT: Rybak, Susanna M.
; APPLICANT: Newton, Dianne L.
; APPLICANT: Boque, Lluís
; APPLICANT: Wlodawer, Alexander
; TITLE OF INVENTION: Recombinant Ribonuclease Proteins
; NUMBER OF SEQUENCES: 64
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, Eighth Floor
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/875,811

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;; FILING DATE: 19-FEB-1998  
;; CLASSIFICATION: 435  
;; PRIOR APPLICATION DATA:  
;; APPLICATION NUMBER: WO PCT/US97/02588  
;; FILING DATE: 19-FEB-1997  
;; PRIOR APPLICATION DATA:  
;; APPLICATION NUMBER: US 60/011,800  
;; FILING DATE: 21-FEB-1996  
;; ATTORNEY/AGENT INFORMATION:  
;; NAME: Faris, Susan K.  
;; REGISTRATION NUMBER: 41,739  
;; REFERENCE/DOCKET NUMBER: 015280-244100US  
;; TELECOMMUNICATION INFORMATION:  
;; TELEPHONE: (415) 576-0200  
;; TELEFAX: (415) 576-0300  
;; INFORMATION FOR SEQ ID NO: 43:  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 379 amino acids  
;; TYPE: amino acid  
;; TOPOLOGY: linear  
;; MOLECULE TYPE: protein  
;; US-08-875-811-43

Query Match 96.2%; Score 556; DB 3; Length 379;  
Best Local Similarity 96.2%; Pred. No. 2.7e-59;  
Matches 100; Conservative 2; Mismatches 2; Indels 0; Gaps 0;  
  
QY 1 QDWLTFQKKHITNTRDVCNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60  
Db 26 QDWLTFQKKHITNTRDVCNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 85  
  
QY 61 SEFYLSDCNVTSRPCKYKLLKSTNTFCVTCENQAPVHFVGVGHC 104  
Db 86 SEFYLSDCNVTSRPCKYKLLKSTNTFCVTCENQAPVHFVGVGSC 129

## RESULT 8

US-08-283-971-1  
; Sequence 1, Application US/08283971  
; Patent No. 5529775  
; GENERAL INFORMATION:  
; APPLICANT: Ardelt Ph.D, Wojciech J.  
; APPLICANT: Mikulski, Stanislaw M.  
; TITLE OF INVENTION: PHARMACEUTICAL FOR TREATING TUMORS IN HUMANS  
; NUMBER OF SEQUENCES: 1  
; CORRESPONDENCE ADDRESS:  
; STREET: P.O. Box 020083, General Post Office  
; CITY: Brooklyn  
; STATE: New York  
; COUNTRY: USA  
; ZIP: 11202-0002  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.24  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/283,971  
; FILING DATE:  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/921,180  
; FILING DATE: 30-JUL-1992  
; APPLICATION NUMBER: US 07/178,118  
; FILING DATE: 06-APR-1988  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/436,141  
; FILING DATE: 13-NOV-1989  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Jay, Mark H.  
; REGISTRATION NUMBER: 27507  
; REFERENCE/DOCKET NUMBER: 5006 US

;; TELECOMMUNICATION INFORMATION:  
;; TELEPHONE: 718-625-0399  
;; TELEFAX: 718-625-0399  
;; TELEX: No. 5529775 Applicable  
;; INFORMATION FOR SEQ ID NO: 1:  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 104 amino acids  
;; TYPE: amino acid  
;; STRANDEDNESS: single  
;; TOPOLOGY: linear  
;; MOLECULE TYPE: protein  
;; HYPOTHETICAL: N  
;; ANTI-SENSE: N  
;; FRAGMENT TYPE: N-terminal  
;; ORIGINAL SOURCE:  
;; ORGANISM: Rana pipiens  
;; DEVELOPMENTAL STAGE: Embryo  
;; US-08-283-971-1

Query Match 95.7%; Score 553; DB 1; Length 104;  
Best Local Similarity 95.2%; Pred. No. 1.2e-59;  
Matches 99; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 1 QDWLTFQKKHITNTRDVCNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60  
Db 1 EDWLTFOKKHITNTRDVCNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60  
  
QY 61 SEFYLSDCNVTSRPCKYKLLKSTNTFCVTCENQAPVHFVGVGHC 104  
Db 61 SEFYLSDCNVTSRPCKYKLLKSTNTFCVTCENQAPVHFVGVGSC 104

## RESULT 9

US-07-921-619-1  
; Sequence 1, Application US/07921619  
; Patent No. 5595734  
; GENERAL INFORMATION:  
; APPLICANT: Ardelt Ph.D, Wojciech J.  
; APPLICANT: Mikulski, Stanislaw M.  
; TITLE OF INVENTION: PHARMACEUTICAL FOR TREATING TUMORS IN HUMANS  
; NUMBER OF SEQUENCES: 1  
; CORRESPONDENCE ADDRESS:  
; STREET: P.O. Box 020083, General Post Office  
; CITY: Brooklyn  
; STATE: New York  
; COUNTRY: USA  
; ZIP: 11202-0002  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.24  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/07/921,619  
; FILING DATE: 19920728  
; CLASSIFICATION: 530  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/178,118  
; FILING DATE: 06-APR-1988  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/436,141  
; FILING DATE: 13-NOV-1989  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Jay, Mark H.  
; REGISTRATION NUMBER: 27507  
; REFERENCE/DOCKET NUMBER: 5005 US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 718-625-0399  
; TELEFAX: 718-625-0399  
; TELEX: No. 5595734 Applicable  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:

LENGTH: 104 amino acids  
TYPE: AMINO ACID  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
HYPOTHETICAL: N  
ANTI-SENSE: N  
FRAGMENT TYPE: N-terminal  
ORIGINAL SOURCE:  
ORGANISM: Rana pipiens  
DEVELOPMENTAL STAGE: Embryo  
US-07-921-619-1

Query Match 95.7%; Score 553; DB 1; Length 104;  
Best Local Similarity 95.2%; Pred. No. 1.2e-59;  
Matches 99; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

Qy 1 QDWLTFQKKHLTNRDVCNNIMSTNLFHCKDKKNTFIYSRPEPVKAICKGIIASKNVLT 60  
Db 1 EDWLTFOKKHITNRDVCNNIMSTNLFHCKDKKNTFIYSRPEPVKAICKGIIASKNVLT 60  
Qy 61 SEFYLSDCNVTSRCKYKLLKXSTNTFCVTCENOAPVHFVGVGHC 104  
Db 61 SEFYLSDCNVTSRCKYKLLKXSTNTFCVTCENOAPVHFVGVGSC 104

## RESULT 10

US-08-467-955-1  
Sequence 1, Application US/08467955  
Patent No. 5728805  
GENERAL INFORMATION:  
APPLICANT: Ardelit Ph.D, Wojciech J.  
TITLE OF INVENTION: PHARMACEUTICALS AND METHOD FOR MAKING THEM  
NUMBER OF SEQUENCES: 2  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Mark H. Jay, P.A.  
STREET: P.O. Box E  
CITY: Short Hills  
STATE: New Jersey  
COUNTRY: USA  
ZIP: 07078-0383  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.24  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/467,955  
FILING DATE:  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/178,118  
FILING DATE: 06-APR-1988  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/436,141  
FILING DATE: 13-NOV-1989  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/814,332  
FILING DATE: 03-FEB-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/283,970  
FILING DATE: 01-AUG-1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Jay, Mark H.  
REGISTRATION NUMBER: 27507  
REFERENCE/DOCKET NUMBER: 5007 US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 201-912-9066  
TELEFAX: 201-912-0442  
TELEX: No. 5728805 Applicable  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 104 amino acids

TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
HYPOTHETICAL: N  
ANTI-SENSE: N  
FRAGMENT TYPE: N-terminal  
ORIGINAL SOURCE:  
ORGANISM: Rana pipiens  
DEVELOPMENTAL STAGE: Oocyte  
US-08-467-955-1

Query Match 95.7%; Score 553; DB 1; Length 104;  
Best Local Similarity 95.2%; Pred. No. 1.2e-59;  
Matches 99; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

Qy 1 QDWLTFQKKHLTNRDVCNNIMSTNLFHCKDKKNTFIYSRPEPVKAICKGIIASKNVLT 60  
Db 1 EDWLTFOKKHITNRDVCNNIMSTNLFHCKDKKNTFIYSRPEPVKAICKGIIASKNVLT 60  
Qy 61 SEFYLSDCNVTSRCKYKLLKXSTNTFCVTCENOAPVHFVGVGHC 104  
Db 61 SEFYLSDCNVTSRCKYKLLKXSTNTFCVTCENOAPVHFVGVGSC 104

## RESULT 11

US-08-891-848-13  
Sequence 13, Application US/08891848  
Patent No. 5955073  
GENERAL INFORMATION:  
APPLICANT: Rybak, Susanna M.  
APPLICANT: Youle, Richard J.  
APPLICANT: Newton, Dianne L.  
APPLICANT: Nicholls, Peter J.  
TITLE OF INVENTION: Selective RNase Cytotoxic Reagents  
NUMBER OF SEQUENCES: 19  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Townsend and Townsend and Crew LLP  
STREET: Two Embarcadero Center, Eighth Floor  
CITY: San Francisco  
STATE: California  
COUNTRY: USA  
ZIP: 94111-3834  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/891,848  
FILING DATE: No. 5955073 yet assigned  
CLASSIFICATION: 530  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/125,462  
FILING DATE: 22-SEP-1993  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/014,082  
FILING DATE: 04-FEB-1993  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/779,195  
FILING DATE: 22-OCT-1991  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/510,696  
FILING DATE: 20-APR-1990  
ATTORNEY/AGENT INFORMATION:  
NAME: Weber, Ellen Lauver  
REGISTRATION NUMBER: 32,762  
REFERENCE/DOCKET NUMBER: 015280-110310US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (415) 576-0200  
TELEFAX: (415) 576-0300  
INFORMATION FOR SEQ ID NO: 13:  
SEQUENCE CHARACTERISTICS:

LENGTH: 104 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
FEATURE:  
NAME/KEY: Protein  
LOCATION: 1..104  
OTHER INFORMATION: /label= Onc  
OTHER INFORMATION: /note= "Oncnase from Rana pipiens"  
US-08-891-848-13

Query Match 95.7%; Score 553; DB 2; Length 104;  
Best Local Similarity 95.2%; Pred. No. 1.2e-59;  
Matches 99; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

Qy 1 QDWLTFQKKHLTNTRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60  
Db 1 EDWLTFOKKHITNTRDVCDDNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60

Qy 61 SEFYLSDCNVTSRPCKYKLLKSTNTFCVTCENQAPVHFVGVGHC 104  
Db 61 SEFYLSDCNVTSRPCKYKLLKSTNTFCVTCENQAPVHFVGVGSC 105

RESULT 13  
US-08-875-811-41  
; Sequence 41, Application US/08875811  
; Patent No. 6045793  
; GENERAL INFORMATION:  
; APPLICANT: Rybak, Susanna M.  
; APPLICANT: Newton, Dianne L.  
; APPLICANT: Boque, Lluis  
; APPLICANT: Wlodawer, Alexander  
; TITLE OF INVENTION: Recombinant Ribonuclease Proteins  
; NUMBER OF SEQUENCES: 64  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Townsend and Townsend and Crew LLP  
; STREET: Two Embarcadero Center, Eighth Floor  
; CITY: San Francisco  
; STATE: California  
; COUNTRY: USA  
; ZIP: 94111-3834  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/875,811  
; FILING DATE: 19-FEB-1998  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: WO PCT/US97/02588  
; FILING DATE: 19-FEB-1997  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 60/011,800  
; FILING DATE: 21-FEB-1996  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Faris, Susan K.  
; REGISTRATION NUMBER: 41,739  
; REFERENCE/DOCKET NUMBER: 015280-244100US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (415) 576-0200  
; TELEFAX: (415) 576-0300  
; INFORMATION FOR SEQ ID NO: 41:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 355 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-08-875-811-41

Query Match 95.7%; Score 553; DB 3; Length 355;  
Best Local Similarity 95.2%; Pred. No. 5.8e-59;  
Matches 99; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

Qy 1 QDWLTFQKKHLTNTRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60  
Db 252 EDWLTFOKKHITNTRDVCDDNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 311

Qy 61 SEFYLSDCNVTSRPCKYKLLKSTNTFCVTCENQAPVHFVGVGHC 104  
Db 312 SEFYLSDCNVTSRPCKYKLLKSTNTFCVTCENQAPVHFVGVGSC 355

LENGTH: 104 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
FEATURE:  
NAME/KEY: Protein  
LOCATION: 1..104  
OTHER INFORMATION: /label= Onc  
OTHER INFORMATION: /note= "Oncnase from Rana pipiens"  
US-08-891-848-13

Query Match 95.7%; Score 553; DB 2; Length 104;  
Best Local Similarity 95.2%; Pred. No. 1.2e-59;  
Matches 99; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

Qy 1 QDWLTFQKKHLTNTRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60  
Db 1 EDWLTFOKKHITNTRDVCDDNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60

Qy 61 SEFYLSDCNVTSRPCKYKLLKSTNTFCVTCENQAPVHFVGVGHC 104  
Db 61 SEFYLSDCNVTSRPCKYKLLKSTNTFCVTCENQAPVHFVGVGSC 104

RESULT 12  
US-08-875-811-39  
; Sequence 39, Application US/08875811  
; Patent No. 6045793  
; GENERAL INFORMATION:  
; APPLICANT: Rybak, Susanna M.  
; APPLICANT: Newton, Dianne L.  
; APPLICANT: Boque, Lluis  
; APPLICANT: Wlodawer, Alexander  
; TITLE OF INVENTION: Recombinant Ribonuclease Proteins  
; NUMBER OF SEQUENCES: 64  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Townsend and Townsend and Crew LLP  
; STREET: Two Embarcadero Center, Eighth Floor  
; CITY: San Francisco  
; STATE: California  
; COUNTRY: USA  
; ZIP: 94111-3834  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/875,811  
; FILING DATE: 19-FEB-1998  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: WO PCT/US97/02588  
; FILING DATE: 19-FEB-1997  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 60/011,800  
; FILING DATE: 21-FEB-1996  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Faris, Susan K.  
; REGISTRATION NUMBER: 41,739  
; REFERENCE/DOCKET NUMBER: 015280-244100US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (415) 576-0200  
; TELEFAX: (415) 576-0300  
; INFORMATION FOR SEQ ID NO: 39:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 105 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-08-875-811-39

Search completed: October 19, 2004, 09:24:42  
Job time : 23.6411 secs





GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: October 19, 2004, 09:04:37 ; Search time 69.1675 Seconds  
(without alignments)  
486.141 Million cell updates/sec

Title: US-09-622-613C-2

Perfect score: 578

Sequence: 1 QDWLTQKXHLNTRDVCN.....TFCVTCENQAPVHFVGHC 104

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1360919 seqs, 323318874 residues

Total number of hits satisfying chosen parameters: 1360919

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

#### Database :

Published Applications AA:\*

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2: /cgn2\_6/ptodata/1/pubpaa/PCT\_NEW\_PUB\_PUB.pcp.\*  
3: /cgn2\_6/ptodata/1/pubpaa/US06\_NEW\_PUB\_PUB.pcp.\*  
4: /cgn2\_6/ptodata/1/pubpaa/US06\_PUBCOMB.pcp.\*  
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10: /cgn2\_6/ptodata/1/pubpaa/US09B\_PUBCOMB.pcp.\*  
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18: /cgn2\_6/ptodata/1/pubpaa/US60\_NEW\_PUB\_PUB.pcp.\*  
19: /cgn2\_6/ptodata/1/pubpaa/US60\_PUBCOMB.pcp.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	578	100.0	104	10	US-09-961-400-2
2	578	100.0	105	10	US-09-948-391A-6
3	578	100.0	105	10	US-09-961-400-6
4	578	100.0	127	10	US-09-948-391A-28
5	578	100.0	127	10	US-09-961-400-28
6	575	99.5	111	10	US-09-961-400-9
7	573	99.1	104	10	US-09-948-391A-11
8	573	99.1	104	10	US-09-961-400-11
9	573	99.1	105	10	US-09-948-391A-13
10	573	99.1	105	10	US-09-961-400-13
11	569	98.4	104	10	US-09-948-391A-2
12	569	98.4	104	10	US-09-948-391A-4
13	569	98.4	104	10	US-09-961-400-4
14	565	97.8	105	10	US-09-961-400-8
15	565	97.8	105	10	US-09-961-400-8

15	560	96.9	105	10	US-09-948-391A-8	Sequence 8, Appli
16	560	96.9	111	10	US-09-948-391A-9	Sequence 9, Appli
17	556	96.2	104	16	US-10-331-910-9	Sequence 9, Appli
18	556	96.2	105	14	US-10-153-882-2	Sequence 2, Appli
19	551	95.3	104	9	US-09-986-119-1	Sequence 1, Appli
20	551	95.3	104	10	US-09-918-887-1	Sequence 1, Appli
21	551	95.3	104	16	US-10-331-910-5	Sequence 5, Appli
22	548	94.8	104	15	US-10-461-713-53	Sequence 53, Appli
23	548	94.8	104	16	US-10-331-910-1	Sequence 1, Appli
24	445	77.0	83	9	US-09-986-119-3	Sequence 3, Appli
25	445	77.0	83	10	US-09-918-887-3	Sequence 3, Appli
26	281.5	48.7	110	10	US-09-948-391A-15	Sequence 15, Appli
27	281.5	48.7	110	10	US-09-961-400-15	Sequence 15, Appli
28	281.5	48.7	111	10	US-09-961-400-17	Sequence 17, Appli
29	277.5	48.0	110	10	US-09-961-400-19	Sequence 19, Appli
30	277.5	48.0	111	10	US-09-948-391A-21	Sequence 21, Appli
31	277.5	48.0	111	10	US-09-961-400-21	Sequence 21, Appli
32	277.5	48.0	117	10	US-09-948-391A-22	Sequence 22, Appli
33	277.5	48.0	117	10	US-09-961-400-22	Sequence 22, Appli
34	276.5	47.8	110	10	US-09-948-391A-24	Sequence 24, Appli
35	276.5	47.8	110	10	US-09-961-400-24	Sequence 24, Appli
36	276.5	47.8	111	10	US-09-948-391A-26	Sequence 26, Appli
37	276.5	47.8	111	10	US-09-961-400-26	Sequence 26, Appli
38	275.5	47.7	111	10	US-09-948-391A-17	Sequence 17, Appli
39	271.5	47.0	110	10	US-09-948-391A-19	Sequence 19, Appli
40	157.5	27.2	169	13	US-10-016-447-2	Sequence 2, Appli
41	149	25.8	119	15	US-10-074-978A-139	Sequence 139, App
42	149	25.8	119	15	US-10-016-248-89	Sequence 89, Appl
43	130.5	22.6	145	15	US-10-432-819-34	Sequence 34, Appl
44	128.5	22.2	124	13	US-10-016-447-5	Sequence 5, Appli
45	125	21.6	124	15	US-10-037-417-103	Sequence 103, App

#### ALIGNMENTS

#### RESULT 1

US-09-961-400-2  
; Sequence 2, Application US/09961400  
; Publication No. US20030124131A1  
; GENERAL INFORMATION:  
; APPLICANT: RYBAK, SUSANNA M.  
; APPLICANT: GOLDENBERG, DAVID M.  
; APPLICANT: NEWTON, DIANNE L.  
; TITLE OF INVENTION: IMMUNOCONJUGATES OF TOXINS DIRECTED AGAINST MALIGNANT  
; TITLE OF INVENTION: CELLS  
; FILE REFERENCE: 018733/1059  
; CURRENT APPLICATION NUMBER: US/09/961,400  
; PRIOR FILING DATE: 2001-09-25  
; PRIOR APPLICATION NUMBER: 09/622,613  
; PRIOR FILING DATE: 2000-08-17  
; PRIOR APPLICATION NUMBER: PCT/US99/06641  
; PRIOR FILING DATE: 1999-03-26  
; PRIOR APPLICATION NUMBER: 60/079,751  
; PRIOR FILING DATE: 1998-03-26  
; NUMBER OF SEQ ID NOS: 43  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 2  
; LENGTH: 104  
; TYPE: PRT  
; ORGANISM: Rana pipiens  
US-09-961-400-2

Query Match 100.0%; Score 578; DB 10; Length 104;  
Best Local Similarity 100.0%; Pred. No. 1.6e-56;  
Matches 104; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 QDWLTQKXHLNTRDVCNIMSTNLFHCKDKNTFIYSRBPVKAICKGILASKNVLTT 60  
Db 1 QDWLTQKXHLNTRDVCNIMSTNLFHCKDKNTFIYSRBPVKAICKGILASKNVLTT 60  
QY 61 SEFYLDQNVTSRCPCKYKLLKSTNTFCVTCENQAPVHFVGHC 104

Db 61 SEFYLSDCNVTSRPCYKYLKKSNTFCVTCENQAPVHFVGVGHC 104

## RESULT 2

US-09-948-391A-6

; Sequence 6, Application US/09948391A

; Publication No. US20030027311A1

; GENERAL INFORMATION:

; APPLICANT: Rybak, Susanna M.

; APPLICANT: Newton, Dianne L.

; APPLICANT: The United States of America

; APPLICANT: as represented by The Secretary of the

; APPLICANT: Department of Health and Human Services

; TITLE OF INVENTION: Recombinant Anti-Tumor RNase

; FILE REFERENCE: 015280-343110US

; CURRENT APPLICATION NUMBER: US/09/948,391A

; CURRENT FILING DATE: 2002-05-10

; PRIOR APPLICATION NUMBER: US 60/079,751

; PRIOR FILING DATE: 1998-03-27

; PRIOR APPLICATION NUMBER: WO PCT/US99/06641

; PRIOR FILING DATE: 1999-03-26

; PRIOR APPLICATION NUMBER: US 09/622,613

; PRIOR FILING DATE: 2000-08-17

; NUMBER OF SEQ ID NOS: 43

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 6

; LENGTH: 105

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE: Description of Artificial Sequence:Rana pipiens

; OTHER INFORMATION: ribonuclease with Met at position 1 (recombinant

; OTHER INFORMATION: Met(-1) RaPLR1)

US-09-948-391A-6

Query Match 100.0%; Score 578; DB 10; Length 105;  
Best Local Similarity 100.0%; Pred. No. 1.6e-56;  
Matches 104; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 QDWLTFQKKHLTNTTRDVCNNIMSTNLFHCKDKNTFYISRPVPVKAICKGIIASKNVLT 60

Db 2 QDWLTFQKKHLTNTTRDVCNNIMSTNLFHCKDKNTFYISRPVPVKAICKGIIASKNVLT 61

QY 61 SEFYLSDCNVTSRPCYKYLKKSNTFCVTCENQAPVHFVGVGHC 104

Db 62 SEFYLSDCNVTSRPCYKYLKKSNTFCVTCENQAPVHFVGVGHC 105

## RESULT 3

US-09-961-400-6

; Sequence 6, Application US/09961400

; Publication No. US20030124131A1

; GENERAL INFORMATION:

; APPLICANT: RYBAK, SUSANNA M.

; APPLICANT: GOLDENBERG, DAVID M.

; APPLICANT: NEWTON, DIANNE L.

; TITLE OF INVENTION: IMMUNOCONJUGATES OF TOXINS DIRECTED AGAINST MALIGNANT

; TITLE OF INVENTION: CELLS

; FILE REFERENCE: 018733/1059

; CURRENT APPLICATION NUMBER: US/09/961,400

; CURRENT FILING DATE: 2001-09-25

; PRIOR APPLICATION NUMBER: 09/622,613

; PRIOR FILING DATE: 2000-08-17

; PRIOR APPLICATION NUMBER: PCT/US99/06641

; PRIOR FILING DATE: 1999-03-26

; PRIOR APPLICATION NUMBER: 60/079,751

; PRIOR FILING DATE: 1998-03-26

; NUMBER OF SEQ ID NOS: 43

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 6

; LENGTH: 105

; TYPE: PRT

; ORGANISM: Rana pipiens

US-09-961-400-6

Query Match 100.0%; Score 578; DB 10; Length 105;

Best Local Similarity 100.0%; Pred. No. 1.6e-56;

Matches 104; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 QDWLTFQKKHLTNTTRDVCNNIMSTNLFHCKDKNTFYISRPVPVKAICKGIIASKNVLT 60

Db 2 QDWLTFQKKHLTNTTRDVCNNIMSTNLFHCKDKNTFYISRPVPVKAICKGIIASKNVLT 61

QY 61 SEFYLSDCNVTSRPCYKYLKKSNTFCVTCENQAPVHFVGVGHC 104

Db 62 SEFYLSDCNVTSRPCYKYLKKSNTFCVTCENQAPVHFVGVGHC 105

## RESULT 4

US-09-948-391A-28

; Sequence 28, Application US/09948391A

; Publication No. US20030027311A1

; GENERAL INFORMATION:

; APPLICANT: Rybak, Susanna M.

; APPLICANT: Newton, Dianne L.

; APPLICANT: The United States of America

; APPLICANT: as represented by The Secretary of the

; APPLICANT: Department of Health and Human Services

; TITLE OF INVENTION: Recombinant Anti-Tumor RNase

; FILE REFERENCE: 015280-343110US

; CURRENT APPLICATION NUMBER: US/09/948,391A

; CURRENT FILING DATE: 2002-05-10

; PRIOR APPLICATION NUMBER: US 60/079,751

; PRIOR FILING DATE: 1998-03-27

; PRIOR APPLICATION NUMBER: WO PCT/US99/06641

; PRIOR FILING DATE: 1999-03-26

; PRIOR APPLICATION NUMBER: US 09/622,613

; PRIOR FILING DATE: 2000-08-17

; NUMBER OF SEQ ID NOS: 43

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 28

; LENGTH: 127

; TYPE: PRT

; ORGANISM: Rana pipiens

; FEATURE:

; OTHER INFORMATION: Rana pipiens ribonuclease (RaPLR1) Clone 5alb cdna

; OTHER INFORMATION: insert

US-09-948-391A-28

Query Match 100.0%; Score 578; DB 10; Length 127;

Best Local Similarity 100.0%; Pred. No. 2e-56;

Matches 104; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 QDWLTFQKKHLTNTTRDVCNNIMSTNLFHCKDKNTFYISRPVPVKAICKGIIASKNVLT 60

Db 24 QDWLTFQKKHLTNTTRDVCNNIMSTNLFHCKDKNTFYISRPVPVKAICKGIIASKNVLT 83

QY 61 SEFYLSDCNVTSRPCYKYLKKSNTFCVTCENQAPVHFVGVGHC 104

Db 84 SEFYLSDCNVTSRPCYKYLKKSNTFCVTCENQAPVHFVGVGHC 127

## RESULT 5

US-09-961-400-28

; Sequence 28, Application US/09961400

; Publication No. US20030124131A1

; GENERAL INFORMATION:

; APPLICANT: RYBAK, SUSANNA M.

; APPLICANT: GOLDENBERG, DAVID M.

; APPLICANT: NEWTON, DIANNE L.

; TITLE OF INVENTION: IMMUNOCONJUGATES OF TOXINS DIRECTED AGAINST MALIGNANT

; TITLE OF INVENTION: CELLS

; FILE REFERENCE: 018733/1059

; CURRENT APPLICATION NUMBER: US/09/961,400

; CURRENT FILING DATE: 2001-09-25

; PRIOR APPLICATION NUMBER: 09/622,613

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/ PRIOR FILING DATE: 2000-08-17
/ PRIOR APPLICATION NUMBER: PCT/US99/06641
/ PRIOR FILING DATE: 1999-03-26
/ PRIOR APPLICATION NUMBER: 60/079,751
/ PRIOR FILING DATE: 1998-03-26
/ NUMBER OF SEQ ID NOS: 43
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 28
/ LENGTH: 127
/ TYPE: PRT
/ ORGANISM: Rana pipiens
US-09-961-400-28

Query Match      100.0%; Score 578; DB 10; Length 127;
Best Local Similarity 100.0%; Pred. No. 2e-56;
Matches 104; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 QDWLTFQKKHLTNRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60
Db 24 QDWLTFQKKHLTNRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 83
QY 61 SEFYLSDCNVTSPCKYKLLKKSNTNFCVTCENQAPVHFVGVGHC 104
Db 84 SEFYLSDCNVTSPCKYKLLKKSNTNFCVTCENQAPVHFVGVGHC 127

RESULT 6
US-09-961-400-9
/ Sequence 9, Application US/09961400
/ Publication No. US20030124131A1
/ GENERAL INFORMATION:
/ APPLICANT: RYBAK, SUSANNA M.
/ APPLICANT: GOLDENBERG, DAVID M.
/ APPLICANT: NEWTON, DIANNE L.
/ TITLE OF INVENTION: IMMUNOCONJUGATES OF TOXINS DIRECTED AGAINST MALIGNANT
/ FILE OF INVENTION: CELLS
/ CURRENT APPLICATION NUMBER: US/09/961,400
/ PRIOR FILING DATE: 2001-09-25
/ PRIOR APPLICATION NUMBER: 09/622,613
/ PRIOR FILING DATE: 2000-08-17
/ PRIOR APPLICATION NUMBER: PCT/US99/06641
/ PRIOR FILING DATE: 1999-03-26
/ PRIOR APPLICATION NUMBER: 60/079,751
/ PRIOR FILING DATE: 1998-03-26
/ NUMBER OF SEQ ID NOS: 43
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 9
/ LENGTH: 111
/ TYPE: PRT
/ ORGANISM: Rana pipiens
US-09-961-400-9

Query Match      99.5%; Score 575; DB 10; Length 111;
Best Local Similarity 99.0%; Pred. No. 3.7e-56;
Matches 103; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 QDWLTFQKKHLTNRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60
Db 8 QDWLTFQKKHLTNRDVCNNILSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 67
QY 61 SEFYLSDCNVTSPCKYKLLKKSNTNFCVTCENQAPVHFVGVGHC 104
Db 68 SEFYLSDCNVTSPCKYKLLKKSNTNFCVTCENQAPVHFVGVGHC 111

RESULT 7
US-09-948-391A-11
/ Sequence 11, Application US/09948391A
/ Publication No. US20030027311A1
/ GENERAL INFORMATION:
/ APPLICANT: Rybak, Susanna M.
/ APPLICANT: Newton, Dianne L.
```

```
/ APPLICANT: The United States of America
/ APPLICANT: as represented by The Secretary of the
/ APPLICANT: Department of Health and Human Services
/ TITLE OF INVENTION: Recombinant Anti-Tumor RNase
/ FILE REFERENCE: 015280-343110US
/ CURRENT APPLICATION NUMBER: US/09/948,391A
/ CURRENT FILING DATE: 2002-05-10
/ PRIOR APPLICATION NUMBER: US 60/079,751
/ PRIOR FILING DATE: 1998-03-27
/ PRIOR APPLICATION NUMBER: WO PCT/US99/06641
/ PRIOR FILING DATE: 1999-03-26
/ PRIOR APPLICATION NUMBER: US 09/622,613
/ PRIOR FILING DATE: 2000-08-17
/ NUMBER OF SEQ ID NOS: 43
/ SOFTWARE: PatentIn Ver. 2.0
/ SEQ ID NO 11
/ LENGTH: 104
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence:Rana pipiens
/ OTHER INFORMATION: ribonuclease with Gln1Ser substitution
/ OTHER INFORMATION: (recombinant RapLR1 Q1S)
US-09-948-391A-11

Query Match      99.1%; Score 573; DB 10; Length 104;
Best Local Similarity 100.0%; Pred. No. 5.8e-56;
Matches 103; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 DMLTFQKKHLTNRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 61
Db 2 DMLTFQKKHLTNRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 61
QY 62 EFYLSDCNVTSPCKYKLLKKSNTNFCVTCENQAPVHFVGVGHC 104
Db 62 EFYLSDCNVTSPCKYKLLKKSNTNFCVTCENQAPVHFVGVGHC 104

RESULT 8
US-09-961-400-11
/ Sequence 11, Application US/09961400
/ Publication No. US20030124131A1
/ GENERAL INFORMATION:
/ APPLICANT: RYBAK, SUSANNA M.
/ APPLICANT: GOLDENBERG, DAVID M.
/ APPLICANT: NEWTON, DIANNE L.
/ TITLE OF INVENTION: IMMUNOCONJUGATES OF TOXINS DIRECTED AGAINST MALIGNANT
/ FILE OF INVENTION: CELLS
/ CURRENT APPLICATION NUMBER: US/09/961,400
/ PRIOR FILING DATE: 2001-09-25
/ PRIOR APPLICATION NUMBER: 09/622,613
/ PRIOR FILING DATE: 2000-08-17
/ PRIOR APPLICATION NUMBER: PCT/US99/06641
/ PRIOR FILING DATE: 1999-03-26
/ PRIOR APPLICATION NUMBER: 60/079,751
/ PRIOR FILING DATE: 1998-03-26
/ NUMBER OF SEQ ID NOS: 43
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 11
/ LENGTH: 104
/ TYPE: PRT
/ ORGANISM: Rana pipiens
US-09-961-400-11

Query Match      99.1%; Score 573; DB 10; Length 104;
Best Local Similarity 100.0%; Pred. No. 5.8e-56;
Matches 103; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 DMLTFQKKHLTNRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 61
Db 2 DMLTFQKKHLTNRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 61
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QY 62 EFYLSDCNVTSRPCKYKLLKSTNTFCVTCENQAPVHFVGVGHC 104  
Db 62 EFYLSDCNVTSRPCKYKLLKSTNTFCVTCENQAPVHFVGVGHC 104

RESULT 9  
US-09-948-391A-13  
; Sequence 13, Application US/09948391A  
; Publication No. US20030027311A1  
; GENERAL INFORMATION:  
; APPLICANT: Rybak, Susanna M.  
; APPLICANT: The United States of America  
; APPLICANT: as represented by The Secretary of the  
; APPLICANT: Department of Health and Human Services  
; TITLE OF INVENTION: Recombinant Anti-Tumor RNase  
; FILE REFERENCE: 015280-343110US  
; CURRENT APPLICATION NUMBER: US/09/948,391A  
; CURRENT FILING DATE: 2002-05-10  
; PRIOR APPLICATION NUMBER: US 60/079,751  
; PRIOR FILING DATE: 1998-03-27  
; PRIOR APPLICATION NUMBER: WO PCT/US99/06641  
; PRIOR FILING DATE: 1999-03-26  
; PRIOR APPLICATION NUMBER: US 09/622,613  
; PRIOR FILING DATE: 2000-08-17  
; NUMBER OF SEQ ID NOS: 43  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 13  
; LENGTH: 105  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Rana pipiens  
; OTHER INFORMATION: ribonuclease with Met at position 1 and Gln28er  
; OTHER INFORMATION: substitution (recombinant Met(-1) RnPLR1 QLS)  
US-09-948-391A-13

Query Match 99.1%; Score 573; DB 10; Length 105;  
Best Local Similarity 100.0%; Pred. No. 5.8e-56;  
Matches 103; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 2 DMLTFQKKHLNTRDVCNNIMSTNLFCHCKDKNTFIYSRPEPVKAICKGIIASKNVLTTS 61  
Db 3 DMLTFQKKHLNTRDVCNNIMSTNLFCHCKDKNTFIYSRPEPVKAICKGIIASKNVLTTS 62  
QY 62 EFYLSDCNVTSRPCKYKLLKSTNTFCVTCENQAPVHFVGVGHC 104  
Db 63 EFYLSDCNVTSRPCKYKLLKSTNTFCVTCENQAPVHFVGVGHC 105

RESULT 10  
US-09-961-400-13  
; Sequence 13, Application US/09961400  
; Publication No. US20030124131A1  
; GENERAL INFORMATION:  
; APPLICANT: RYBAK, SUSANNA M.  
; APPLICANT: GOLDENBERG, DAVID M.  
; APPLICANT: NEWTON, DIANNE L.  
; TITLE OF INVENTION: IMMUNOCONJUGATES OF TOXINS DIRECTED AGAINST MALIGNANT  
; TITLE OF INVENTION: CELLS  
; FILE REFERENCE: 018733/1059  
; CURRENT APPLICATION NUMBER: US/09/961,400  
; CURRENT FILING DATE: 2001-09-25  
; PRIOR APPLICATION NUMBER: 09/622,613  
; PRIOR FILING DATE: 2000-08-17  
; PRIOR APPLICATION NUMBER: PCT/US99/06641  
; PRIOR FILING DATE: 1999-03-26  
; PRIOR APPLICATION NUMBER: 60/079,751  
; PRIOR FILING DATE: 1998-03-26  
; NUMBER OF SEQ ID NOS: 43  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 13  
; LENGTH: 105

; TYPE: PRT  
; ORGANISM: Rana pipiens  
US-09-961-400-13

Query Match 99.1%; Score 573; DB 10; Length 105;  
Best Local Similarity 100.0%; Pred. No. 5.8e-56;  
Matches 103; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 2 DMLTFQKKHLNTRDVCNNIMSTNLFCHCKDKNTFIYSRPEPVKAICKGIIASKNVLTTS 61  
Db 3 DMLTFQKKHLNTRDVCNNIMSTNLFCHCKDKNTFIYSRPEPVKAICKGIIASKNVLTTS 62  
QY 62 EFYLSDCNVTSRPCKYKLLKSTNTFCVTCENQAPVHFVGVGHC 104  
Db 63 EFYLSDCNVTSRPCKYKLLKSTNTFCVTCENQAPVHFVGVGHC 105

RESULT 11  
US-09-948-391A-2  
; Sequence 2, Application US/09948391A  
; Publication No. US20030027311A1  
; GENERAL INFORMATION:  
; APPLICANT: Rybak, Susanna M.  
; APPLICANT: Newton, Dianne L.  
; APPLICANT: The United States of America  
; APPLICANT: as represented by The Secretary of the  
; APPLICANT: Department of Health and Human Services  
; TITLE OF INVENTION: Recombinant Anti-Tumor RNase  
; FILE REFERENCE: 015280-343110US  
; CURRENT APPLICATION NUMBER: US/09/948,391A  
; CURRENT FILING DATE: 2002-05-10  
; PRIOR APPLICATION NUMBER: US 60/079,751  
; PRIOR FILING DATE: 1998-03-27  
; PRIOR APPLICATION NUMBER: WO PCT/US99/06641  
; PRIOR FILING DATE: 1999-03-26  
; PRIOR APPLICATION NUMBER: US 09/622,613  
; PRIOR FILING DATE: 2000-08-17  
; NUMBER OF SEQ ID NOS: 43  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 2  
; LENGTH: 104  
; TYPE: PRT  
; ORGANISM: Rana pipiens  
; FEATURE:  
; OTHER INFORMATION: ribonuclease (RnPLR1)  
US-09-948-391A-2

Query Match 98.4%; Score 569; DB 10; Length 104;  
Best Local Similarity 99.0%; Pred. No. 1.6e-55;  
Matches 103; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 1 QDMLTFQKKHLNTRDVCNNIMSTNLFCHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60  
Db 1 QDMLTFQKKHLNTRDVCNNIMSTNLFCHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60  
QY 61 SEFYLSDCNVTSRPCKYKLLKSTNTFCVTCENQAPVHFVGVGHC 104  
Db 61 SEFYLSDCNVTSRPCKYKLLKSTNTFCVTCENQAPVHFVGVGHC 104

RESULT 12  
US-09-948-391A-4  
; Sequence 4, Application US/09948391A  
; Publication No. US20030027311A1  
; GENERAL INFORMATION:  
; APPLICANT: Rybak, Susanna M.  
; APPLICANT: Newton, Dianne L.  
; APPLICANT: The United States of America  
; APPLICANT: as represented by The Secretary of the  
; APPLICANT: Department of Health and Human Services  
; TITLE OF INVENTION: Recombinant Anti-Tumor RNase  
; FILE REFERENCE: 015280-343110US  
; CURRENT APPLICATION NUMBER: US/09/948,391A

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/ CURRENT FILING DATE: 2002-05-10
/ PRIOR APPLICATION NUMBER: US 60/079,751
/ PRIOR FILING DATE: 1998-03-27
/ PRIOR APPLICATION NUMBER: WO PCT/US99/06641
/ PRIOR FILING DATE: 1999-03-26
/ PRIOR APPLICATION NUMBER: US 09/622,613
/ PRIOR FILING DATE: 2000-08-17
/ NUMBER OF SEQ ID NOS: 43
/ SOFTWARE: PatentIn Ver. 2.0
/ SEQ ID NO 4
/ LENGTH: 104
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: Rana pipiens
/ OTHER INFORMATION: ribonuclease with Met23Leu substitution
/ OTHER INFORMATION: (recombinant RapLR1 Met23Leu)
US-09-948-391A-4

Query Match          98.4%; Score 569; DB 10; Length 104;
Best Local Similarity 98.1%; Pred. No. 1.6e-55;
Matches 102; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 QDWLTFQKKHLTNTRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIASKNVLT 60
Db 1 QDWLTFQKKHLTNTRDVCNNILSTNLFHCKDKNTFIYSRPEPVKAICKGIASKNVLT 60

QY 61 SEFYSDCNVTSRCKYKLLKKSNTFCVTCENQAPVHFVGVC 104
Db 61 FEYLSDCNVTSPCKYKLLKKSNTFCVTCENQAPVHFVGVC 104

RESULT 13
US-09-961-400-4
/ Sequence 4, Application US/09961400
/ Publication No. US20030124131A1
/ GENERAL INFORMATION:
/ APPLICANT: RYBAK, SUSANNA M.
/ APPLICANT: GOLDENBERG, DAVID M.
/ APPLICANT: NEWTON, DIANNE L.
/ TITLE OF INVENTION: CELLS
/ FILE REFERENCE: 018733/1059
/ CURRENT APPLICATION NUMBER: US/09/961,400
/ PRIOR FILING DATE: 2001-09-25
/ PRIOR APPLICATION NUMBER: PCT/US99/06641
/ PRIOR FILING DATE: 2000-08-17
/ PRIOR APPLICATION NUMBER: 60/079,751
/ PRIOR FILING DATE: 1998-03-26
/ NUMBER OF SEQ ID NOS: 43
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 4
/ LENGTH: 104
/ TYPE: PRT
/ ORGANISM: Rana pipiens
US-09-961-400-4

Query Match          98.4%; Score 569; DB 10; Length 104;
Best Local Similarity 98.1%; Pred. No. 1.6e-55;
Matches 102; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 QDWLTFQKKHLTNTRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIASKNVLT 60
Db 1 QDWLTFQKKHLTNTRDVCNNILSTNLFHCKDKNTFIYSRPEPVKAICKGIASKNVLT 60

QY 61 SEFYSDCNVTSRCKYKLLKKSNTFCVTCENQAPVHFVGVC 104
Db 61 FEYLSDCNVTSPCKYKLLKKSNTFCVTCENQAPVHFVGVC 104

RESULT 14
US-09-948-391A-8
/ Sequence 8, Application US/09948391A
/ Publication No. US20030027311A1
/ GENERAL INFORMATION:
/ APPLICANT: RYBAK, SUSANNA M.
/ APPLICANT: NEWTON, DIANNE L.
/ TITLE OF INVENTION: CELLS
/ FILE REFERENCE: 018733/1059
/ CURRENT APPLICATION NUMBER: US/09/961,400
/ PRIOR FILING DATE: 2001-09-25
/ PRIOR APPLICATION NUMBER: PCT/US99/06641
/ PRIOR FILING DATE: 2000-08-17
/ PRIOR APPLICATION NUMBER: 60/079,751
/ PRIOR FILING DATE: 1998-03-26
/ NUMBER OF SEQ ID NOS: 43
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 8
/ LENGTH: 105
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: Rana pipiens
/ OTHER INFORMATION: ribonuclease with Met at position 1 and Met24Ileu
/ OTHER INFORMATION: substitution (recombinant Met(-1) RapLR1 Met23Leu)
US-09-948-391A-8

Query Match          96.9%; Score 560; DB 10; Length 105;
Best Local Similarity 97.1%; Pred. No. 1.6e-54;
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US-09-961-400-8
/ Sequence 8, Application US/09961400
/ Publication No. US20030124131A1
/ GENERAL INFORMATION:
/ APPLICANT: RYBAK, SUSANNA M.
/ APPLICANT: GOLDENBERG, DAVID M.
/ APPLICANT: NEWTON, DIANNE L.
/ TITLE OF INVENTION: CELLS
/ FILE REFERENCE: 018733/1059
/ CURRENT APPLICATION NUMBER: US/09/961,400
/ PRIOR FILING DATE: 2001-09-25
/ PRIOR APPLICATION NUMBER: PCT/US99/06641
/ PRIOR FILING DATE: 2000-08-17
/ PRIOR APPLICATION NUMBER: 60/079,751
/ PRIOR FILING DATE: 1998-03-26
/ NUMBER OF SEQ ID NOS: 43
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 8
/ LENGTH: 105
/ TYPE: PRT
/ ORGANISM: Rana pipiens
US-09-961-400-8

Query Match          97.8%; Score 565; DB 10; Length 105;
Best Local Similarity 97.1%; Pred. No. 4.5e-55;
Matches 101; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 QDWLTFQKKHLTNTRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIASKNVLT 60
Db 2 QDWLTFQKKHLTNTRDVCNNILSTNLFHCKDKNTFIYSRPEPVKAICKGIASKNVLT 61

QY 61 SEFYSDCNVTSRCKYKLLKKSNTFCVTCENQAPVHFVGVC 104
Db 62 FEYLSDCNVTSPCKYKLLKKSNTFCVTCENQAPVHFVGVC 105

RESULT 15
US-09-948-391A-8
/ Sequence 8, Application US/09948391A
/ Publication No. US20030027311A1
/ GENERAL INFORMATION:
/ APPLICANT: RYBAK, SUSANNA M.
/ APPLICANT: NEWTON, DIANNE L.
/ APPLICANT: The United States of America
/ APPLICANT: as represented by The Secretary of the
/ APPLICANT: Department of Health and Human Services
/ TITLE OF INVENTION: Recombinant Anti-Tumor RNase
/ FILE REFERENCE: 015280-343110US
/ CURRENT APPLICATION NUMBER: US/09/948,391A
/ CURRENT FILING DATE: 2002-05-10
/ PRIOR APPLICATION NUMBER: US 60/079,751
/ PRIOR FILING DATE: 1998-03-27
/ PRIOR APPLICATION NUMBER: WO PCT/US99/06641
/ PRIOR FILING DATE: 1999-03-26
/ PRIOR APPLICATION NUMBER: US 09/622,613
/ PRIOR FILING DATE: 2000-08-17
/ NUMBER OF SEQ ID NOS: 43
/ SOFTWARE: PatentIn Ver. 2.0
/ SEQ ID NO 8
/ LENGTH: 105
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: Rana pipiens
/ OTHER INFORMATION: ribonuclease with Met at position 1 and Met24Ileu
/ OTHER INFORMATION: substitution (recombinant Met(-1) RapLR1 Met23Leu)
US-09-948-391A-8

Query Match          96.9%; Score 560; DB 10; Length 105;
Best Local Similarity 97.1%; Pred. No. 1.6e-54;
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Matches	101;	Conservative	1;	Mismatches	2;	Indels	0;	Gaps	0;
Qy	1	QDWLTFQKKHLTNTRDVCNNIMSTNLFHCKDKNTFIYSRDEPVKAICKGIIASKNVLT	60						
Db	2	QDWLTFQKKHLTNTRDVCNNILSTNLFHCKDKNTFIYSRDEPVKAICKGIIASKNVLT	61						
Qy	61	SEFYLSDCNVTSRPCKYKLLKSTNTFCVT	CENQAPVHFVGVC	104					
Db	62	FEFYLSDCNVTSRPCKYKLLKSTNTFCVT	CENQAPVHFVGVC	105					

Search completed: October 19, 2004, 09:23:05  
Job time : 71.4175 secs

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OM protein - protein search, using sw model

Run on: October 19, 2004, 09:04:37 ; Search time 22.6411 Seconds  
(without alignments)  
304.626 Million cell updates/sec

Title: US-09-622-613C-4

Perfect score: 577

Sequence: 1 QDWLTQKKHLNTRDVCN.....TFCVTCNQAPVHVGVGHC 104

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 478139 seqs, 66318000 residues

Total number of hits satisfying chosen parameters: 478139

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents AA:\*  
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2: /cgn2\_6/ptodata/1/iaa/5B COMB.pep.\*  
3: /cgn2\_6/ptodata/1/iaa/6A COMB.pep.\*  
4: /cgn2\_6/ptodata/1/iaa/6B COMB.pep.\*  
5: /cgn2\_6/ptodata/1/iaa/PCTUS COMB.pep.\*  
6: /cgn2\_6/ptodata/1/iaa/backfiles1.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	555	96.2	104	1	US-08-467-955-2
2	553	95.8	104	3	US-09-394-268-1
3	553	95.8	104	4	US-09-687-748-1
4	553	95.8	104	4	US-08-626-288-1
5	553	95.8	104	4	US-09-095-429-1
6	553	95.8	129	3	US-08-875-811-63
7	553	95.8	379	3	US-08-875-811-43
8	550	95.3	104	1	US-08-283-371-1
9	550	95.3	104	1	US-07-921-619-1
10	550	95.3	104	1	US-08-467-955-1
11	550	95.3	104	2	US-08-891-848-13
12	550	95.3	104	3	US-09-394-268-2
13	550	95.3	104	4	US-09-687-748-2
14	550	95.3	104	4	US-08-626-288-2
15	550	95.3	104	4	US-09-095-429-2
16	550	95.3	105	3	US-08-875-811-39
17	550	95.3	355	3	US-08-875-811-41
18	550	95.3	358	3	US-08-875-811-51
19	548	95.0	104	3	US-08-875-811-1
20	548	95.0	104	3	US-09-071-672-1
21	548	95.0	104	4	US-09-986-119-1
22	548	95.0	106	3	US-08-875-811-28
23	548	95.0	107	3	US-08-875-811-30
24	548	95.0	112	3	US-08-875-811-32
25	548	95.0	251	3	US-08-875-811-59
26	548	95.0	254	3	US-08-875-811-61
27	548	95.0	355	3	US-08-875-811-49

28 548 95.0 355 3 US-08-875-811-57  
29 548 95.0 355 3 US-08-875-811-64  
30 548 95.0 366 3 US-08-875-811-55  
31 543 94.1 105 3 US-08-875-811-24  
32 543 94.1 105 3 US-08-875-811-26  
33 539 93.4 358 3 US-08-875-811-45  
34 539 93.4 365 3 US-08-875-811-53  
35 524 90.8 107 3 US-08-875-811-20  
36 487 84.4 360 3 US-08-875-811-47  
37 480.5 83.3 111 3 US-08-875-811-22  
38 442 76.6 83 3 US-08-875-811-2  
39 442 76.6 83 3 US-09-071-672-3  
40 442 76.6 83 4 US-09-986-119-3  
41 286 49.6 111 2 US-08-891-848-12  
42 286 49.6 111 3 US-08-875-811-8  
43 214.5 37.2 114 3 US-09-223-118-4  
44 202.5 35.1 114 3 US-09-223-118-2  
45 201.5 34.9 114 3 US-09-223-118-1

#### ALIGNMENTS

#### RESULT 1

US-08-467-955-2  
; Sequence 2, Application US/08467955  
; Patent No. 5728805  
; GENERAL INFORMATION:  
; APPLICANT: Ardelt Ph.D, Wojciech J.  
; TITLE OF INVENTION: PHARMACEUTICALS AND METHOD FOR MAKING THEM  
; NUMBER OF SEQUENCES: 2  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Mark H. Jay, P.A.  
; STREET: P.O. Box E  
; CITY: Short Hills  
; STATE: New Jersey  
; COUNTRY: USA  
; ZIP: 07078-0383  
; COMPUTER READABLE FORM: disk  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.24  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/467,955  
; FILING DATE:  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/178,118  
; FILING DATE: 06-APR-1988  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/436,141  
; FILING DATE: 13-NOV-1989  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/814,332  
; FILING DATE: 03-FEB-1992  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/283,970  
; FILING DATE: 01-AUG-1994  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Jay, Mark H.  
; REGISTRATION NUMBER: 27507  
; REFERENCE/DOCKET NUMBER: 5007 US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 201-912-9066  
; TELEFAX: 201-912-0442  
; TELEX: No. 5728805 Applicable  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 104 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear

Sequence 57, Appl  
Sequence 64, Appl  
Sequence 55, Appl  
Sequence 24, Appl  
Sequence 26, Appl  
Sequence 45, Appl  
Sequence 53, Appl  
Sequence 23, Appl  
Sequence 47, Appl  
Sequence 22, Appl  
Sequence 2, Appl  
Sequence 3, Appl  
Sequence 3, Appl  
Sequence 12, Appl  
Sequence 8, Appl  
Sequence 4, Appl  
Sequence 2, Appl  
Sequence 1, Appl

MOLECULE TYPE: protein  
HYPOTHETICAL: N  
ANTI-SENSE: N  
FRAGMENT TYPE: N-terminal  
ORIGINAL SOURCE:  
ORGANISM: Rana pipiens  
DEVELOPMENTAL STAGE: Oocyte  
US-08-467-955-2

Query Match 96.2%; Score 553; DB 1; Length 104;  
Best Local Similarity 95.2%; Pred. No. 3.9e-60;  
Matches 99; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 1 QDWLTFQKKHLTNRDVCNNILSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60  
DB 1 EDWLTFFQKKHITNRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60

QY 61 SEFYLSDCNVTSRPCCKYKLLKXSTNTFCVTCENQAPVHFVGVGHC 104  
DB 61 SEFYLSDCNVTSRPCCKYKLLKXSTNTFCVTCENQAPVHFVGVGRC 104

## RESULT 2

US-09-394-268-1

; Sequence 1, Application US/09394268

; Patent No. 6175003

; GENERAL INFORMATION:

; APPLICANT: Saxena, Shailendra K

; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING RIBONUCLEASES AND METHODS OF

; FILE REFERENCE: 5013

; CURRENT APPLICATION NUMBER: US/09/394,268

; CURRENT FILING DATE: 1999-09-10

; NUMBER OF SEQ ID NOS: 8

; SOFTWARE: Patentin Ver. 2.0

; SEQ ID NO 1

; LENGTH: 104

; TYPE: PRT

; ORGANISM: Rana pipiens

US-09-394-268-1

Query Match 95.8%; Score 553; DB 3; Length 104;  
Best Local Similarity 95.2%; Pred. No. 6.9e-60;  
Matches 99; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 1 QDWLTFQKKHLTNRDVCNNILSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60  
DB 1 QDWLTFQKKHITNRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60

QY 61 SEFYLSDCNVTSRPCCKYKLLKXSTNTFCVTCENQAPVHFVGVGHC 104  
DB 61 SEFYLSDCNVTSRPCCKYKLLKXSTNTFCVTCENQAPVHFVGVGSC 104

## RESULT 3

US-09-687-748-1

; Sequence 1, Application US/09687748

; Patent No. 6423515

; GENERAL INFORMATION:

; APPLICANT: Saxena, Shailendra K

; TITLE OF INVENTION: METHODS OF MAKING NUCLEIC ACIDS ENCODING RIBONUCLEASES

; FILE REFERENCE: 5013 US 01

; CURRENT APPLICATION NUMBER: US/09/687,748

; CURRENT FILING DATE: 2000-10-14

; PRIOR APPLICATION NUMBER: 09/394,268

; PRIOR FILING DATE: 1999-09-10

; NUMBER OF SEQ ID NOS: 8

; SOFTWARE: Patentin Ver. 2.0

; SEQ ID NO 1

; LENGTH: 104

; TYPE: PRT

; ORGANISM: Rana pipiens

US-09-687-748-1

Query Match 95.8%; Score 553; DB 4; Length 104;  
Best Local Similarity 95.2%; Pred. No. 6.9e-60;  
Matches 99; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 1 QDWLTFQKKHLTNRDVCNNILSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60  
DB 1 QDWLTFQKKHITNRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60

QY 61 SEFYLSDCNVTSRPCCKYKLLKXSTNTFCVTCENQAPVHFVGVGHC 104  
DB 61 SEFYLSDCNVTSRPCCKYKLLKXSTNTFCVTCENQAPVHFVGVGSC 104

## RESULT 4

US-08-626-288-1

; Sequence 1, Application US/08626288

; Patent No. 6649392

; GENERAL INFORMATION:

; APPLICANT: Youle, Richard

; APPLICANT: Vasandani, Veena

; APPLICANT: Wu, Yon-Neng

; APPLICANT: Boix, Ester

; APPLICANT: Ardelt, Wojciech

; TITLE OF INVENTION: A Mutant Form of Cytotoxic Protein Which

; TITLE OF INVENTION: Allows Production by Recombinant Methods

; NUMBER OF SEQUENCES: 3

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Townsend and Townsend and Crew

; STREET: One Market Plaza, Steuart Street Tower

; CITY: San Francisco

; STATE: California

; COUNTRY: USA

; ZIP: 94105-1492

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patentin Release #1.0, Version #1.30

; CURRENT APPLICATION DATA: US/08/626,288

; APPLICATION NUMBER: No. 6649392 yet assigned

; FILING DATE: 530

; CLASSIFICATION: 530

; ATTORNEY/AGENT INFORMATION:

; NAME: Ran, David B.

; REGISTRATION NUMBER: 38,589

; REFERENCE/DOCKET NUMBER: 15280-267

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (415) 543-9600

; TELEFAX: (415) 543-5043

; INFORMATION FOR SEQ ID NO: 1:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 104 amino acids

; TYPE: amino acid

; STRANDEDNESS:

; TOPOLOGY: linear

; MOLECULE TYPE: protein

US-08-626-288-1

Query Match 95.8%; Score 553; DB 4; Length 104;  
Best Local Similarity 95.2%; Pred. No. 6.9e-60;  
Matches 99; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 1 QDWLTFQKKHLTNRDVCNNILSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60  
DB 1 QDWLTFQKKHITNRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60

QY 61 SEFYLSDCNVTSRPCCKYKLLKXSTNTFCVTCENQAPVHFVGVGHC 104  
DB 61 SEFYLSDCNVTSRPCCKYKLLKXSTNTFCVTCENQAPVHFVGVGSC 104

## RESULT 5



```

US-09-095-429-1
; Sequence 1, Application US/09095429
; Patent No. 6649193
; GENERAL INFORMATION:
; APPLICANT: Youle, Richard
; APPLICANT: Vasandani, Veena
; APPLICANT: Wu, Yon-Neng
; APPLICANT: Boix, Ester
; APPLICANT: Ardelet, Wojciech
; TITLE OF INVENTION: A Mutant Form of Cytotoxic Protein Which
; TITLE OF INVENTION: Allows Production by Recombinant Methods
; NUMBER OF SEQUENCES: 3
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew
; STREET: One Market Plaza, Steuart Street Tower
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94105-1492
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/095,429
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/626,288
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Ran, David B.
; REGISTRATION NUMBER: 38,589
; REFERENCE/DOCKET NUMBER: 15280-267
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 543-9600
; TELEFAX: (415) 543-5043
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 104 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-095-429-1

Query Match          95.8%; Score 553; DB 4; Length 104;
Best Local Similarity 95.2%; Pred. No. 6.9e-60;
Matches 99; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 1 QDWLTQKKHLTNRDVCNNILSTNLFHCKDKNTFYSRPEPVKAICKGIIASKNVLT 60
Db 1 QDWLTQKKHITNRDVCNNIMSTNLFHCKDKNTFYSRPEPVKAICKGIIASKNVLT 60
QY 61 SEFYLSDCNVTSPCKYKLLKSTNTFCVTENQAPVHFVGVGHC 104
Db 61 SEFYLSDCNVTSPCKYKLLKSTNTFCVTENQAPVHFVGVGSC 104

RESULT 6
US-08-875-811-63
; Sequence 63, Application US/08875811
; Patent No. 6045793
; GENERAL INFORMATION:
; APPLICANT: Rybak, Susanna M.
; APPLICANT: Newton, Dianne L.
; APPLICANT: Boque, Lluis
; APPLICANT: Wlodawer, Alexander
; TITLE OF INVENTION: Recombinant Ribonuclease Proteins
; NUMBER OF SEQUENCES: 64
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: One Market Plaza, Steuart Street Tower
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94105-1492
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/875,811

```

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; STREET: Two Embarcadero Center, Eighth Floor
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/875,811
; FILING DATE: 19-FEB-1998
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: WO PCT/US97/02588
; FILING DATE: 19-FEB-1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/011,800
; FILING DATE: 21-FEB-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Faris, Susan K.
; REGISTRATION NUMBER: 41,739
; REFERENCE/DOCKET NUMBER: 015280-244100US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 576-0200
; TELEFAX: (415) 576-0300
; INFORMATION FOR SEQ ID NO: 63:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 129 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-875-811-63

Query Match          95.8%; Score 553; DB 3; Length 129;
Best Local Similarity 95.2%; Pred. No. 9.2e-60;
Matches 99; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 1 QDWLTQKKHLTNRDVCNNILSTNLFHCKDKNTFYSRPEPVKAICKGIIASKNVLT 60
Db 26 QDWLTQKKHITNRDVCNNIMSTNLFHCKDKNTFYSRPEPVKAICKGIIASKNVLT 85
QY 61 SEFYLSDCNVTSPCKYKLLKSTNTFCVTENQAPVHFVGVGHC 104
Db 86 SEFYLSDCNVTSPCKYKLLKSTNTFCVTENQAPVHFVGVGSC 129

RESULT 7
US-08-875-811-43
; Sequence 43, Application US/08875811
; Patent No. 6045793
; GENERAL INFORMATION:
; APPLICANT: Rybak, Susanna M.
; APPLICANT: Newton, Dianne L.
; APPLICANT: Boque, Lluis
; APPLICANT: Wlodawer, Alexander
; TITLE OF INVENTION: Recombinant Ribonuclease Proteins
; NUMBER OF SEQUENCES: 64
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, Eighth Floor
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/875,811

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;; FILING DATE: 19-FEB-1998  
;; CLASSIFICATION: 435  
;; PRIOR APPLICATION DATA:  
;; APPLICATION NUMBER: WO PCT/US97/02588  
;; FILING DATE: 19-FEB-1997  
;; PRIOR APPLICATION DATA:  
;; APPLICATION NUMBER: US 60/011,800  
;; FILING DATE: 21-FEB-1996  
;; ATTORNEY/AGENT INFORMATION:  
;; NAME: Faris, Susan K.  
;; REGISTRATION NUMBER: 41,739  
;; REFERENCE/DOCKET NUMBER: 015280-244100US  
;; TELECOMMUNICATION INFORMATION:  
;; TELEPHONE: (415) 576-0200  
;; TELEFAX: (415) 576-0300  
;; INFORMATION FOR SEQ ID NO: 43:  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 379 amino acids  
;; TYPE: amino acid  
;; TOPOLOGY: linear  
;; MOLECULE TYPE: protein  
;; US-08-875-811-43

Query Match 95.8%; Score 553; DB 3; Length 379;  
Best Local Similarity 95.2%; Pred. No. 3.8e-59;  
Matches 99; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 1 QDWLTFQKKHLNTRDVCNNILSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60  
DB 26 QDWLTFQKKHLNTRDVCNNILSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 85  
QY 61 SEFYLSDCNVTSRCKYKLLKSTNTFCVTCENQAPVHFVGVGHC 104  
DB 86 SEFYLSDCNVTSRCKYKLLKSTNTFCVTCENQAPVHFVGVGSC 129

## RESULT 8

US-08-283-971-1  
; Sequence 1, Application US/08283971  
; Patent No. 5529775  
; GENERAL INFORMATION:  
; APPLICANT: Ardelt Ph.D. Wojciech J.  
; APPLICANT: Mikulski, Stanislaw M.  
; TITLE OF INVENTION: PHARMACEUTICAL FOR TREATING TUMORS IN HUMANS  
; NUMBER OF SEQUENCES: 1  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Mark H. Jay, P.C.  
; STREET: P.O. Box 020083, General Post Office  
; CITY: Brooklyn  
; STATE: New York  
; COUNTRY: USA  
; ZIP: 11202-0002  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.24  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/283,971  
; FILING DATE:  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/921,180  
; FILING DATE: 30-JUL-1992  
; APPLICATION NUMBER: US 07/178,118  
; FILING DATE: 06-APR-1988  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/436,141  
; FILING DATE: 13-NOV-1989  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Jay, Mark H.  
; REGISTRATION NUMBER: 27507  
; REFERENCE/DOCKET NUMBER: 5006 US

;; TELECOMMUNICATION INFORMATION:  
;; TELEPHONE: 718-625-0399  
;; TELEFAX: 718-625-0399  
;; TELEX: No. 5529775 Applicable  
;; INFORMATION FOR SEQ ID NO: 1:  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 104 amino acids  
;; TYPE: amino acid  
;; STRANDEDNESS: single  
;; TOPOLOGY: linear  
;; MOLECULE TYPE: protein  
;; HYPOTHETICAL: N  
;; ANTI-SENSE: N  
;; FRAGMENT TYPE: N-terminal  
;; ORIGINAL SOURCE:  
;; ORGANISM: Rana pipiens  
;; DEVELOPMENTAL STAGE: Embryo  
;; US-08-283-971-1

Query Match 95.3%; Score 550; DB 1; Length 104;  
Best Local Similarity 94.2%; Pred. No. 1.6e-59;  
Matches 98; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 1 QDWLTFQKKHLNTRDVCNNILSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60  
DB 1 EDWLTFQKKHLNTRDVCNNILSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60  
QY 61 SEFYLSDCNVTSRCKYKLLKSTNTFCVTCENQAPVHFVGVGHC 104  
DB 61 SEFYLSDCNVTSRCKYKLLKSTNTFCVTCENQAPVHFVGVGSC 104

## RESULT 9

US-07-921-619-1  
; Sequence 1, Application US/07921619  
; Patent No. 5595734  
; GENERAL INFORMATION:  
; APPLICANT: Ardelt Ph.D. Wojciech J.  
; APPLICANT: Mikulski, Stanislaw M.  
; TITLE OF INVENTION: PHARMACEUTICAL FOR TREATING TUMORS IN HUMANS  
; NUMBER OF SEQUENCES: 1  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Mark H. Jay, P.C.  
; STREET: P.O. Box 020083, General Post Office  
; CITY: Brooklyn  
; STATE: New York  
; COUNTRY: USA  
; ZIP: 11202-0002  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.24  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/07/921,619  
; FILING DATE: 19920728  
; CLASSIFICATION: 530  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/178,118  
; FILING DATE: 06-APR-1988  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/436,141  
; FILING DATE: 13-NOV-1989  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Jay, Mark H.  
; REGISTRATION NUMBER: 27507  
; REFERENCE/DOCKET NUMBER: 5005 US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 718-625-0399  
; TELEFAX: 718-625-0399  
; TELEX: No. 5595734 Applicable  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:

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; LENGTH: 104 amino acids
; TYPE: AMINO ACID
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: N
; ANTI-SENSE: N
; FRAGMENT TYPE: N-terminal
; ORIGINAL SOURCE:
; ORGANISM: Rana pipiens
; DEVELOPMENTAL STAGE: Embryo
; US-07-921-619-1

Query Match          95.3%; Score 550; DB 1; Length 104;
Best Local Similarity 94.2%; Pred. No. 1.6e-59;
Matches 98; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 1 QDWLTFQKHLNTRDVCNNILSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLTT 60
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Db 1 EDWLTQKXHTNTRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLTT 60

QY 61 SEFYSDCNVTSRCPKYKLLKSTNTPCVTCENQAPVHFVGVGHC 104
   :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 61 SEFYSDCNVTSRCPKYKLLKSTNTPCVTCENQAPVHFVGVGSC 104

RESULT 10
US-08-467-955-1
; Sequence 1, Application US/08467955
; Patent No. 5728805
; GENERAL INFORMATION:
; APPLICANT: Ardelt Ph.D. Wojciech J.
; TITLE OF INVENTION: PHARMACEUTICALS AND METHOD FOR MAKING THEM
; NUMBER OF SEQUENCES: 2
; ADDRESSEE: Mark H. Jay, P.A.
; STREET: P.O. Box E
; CITY: Short Hills
; STATE: New Jersey
; COUNTRY: USA
; ZIP: 07078-0383
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.24
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,955
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/178,118
; FILING DATE: 06-APR-1988
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/436,141
; FILING DATE: 13-NOV-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/814,332
; FILING DATE: 03-FEB-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/283,970
; FILING DATE: 01-AUG-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jay, Mark H.
; REGISTRATION NUMBER: 27507
; REFERENCE/DOCKET NUMBER: 5007 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 201-912-9066
; TELEFAX: 201-912-0442
; TELEX: No. 5728805 Applicable
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 104 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: N
; ANTI-SENSE: N
; FRAGMENT TYPE: N-terminal
; ORIGINAL SOURCE:
; ORGANISM: Rana pipiens
; DEVELOPMENTAL STAGE: Oocyte
; US-08-467-955-1

Query Match          95.3%; Score 550; DB 1; Length 104;
Best Local Similarity 94.2%; Pred. No. 1.6e-59;
Matches 98; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 1 QDWLTFQKHLNTRDVCNNILSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLTT 60
   :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 1 EDWLTQKXHTNTRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLTT 60

QY 61 SEFYSDCNVTSRCPKYKLLKSTNTPCVTCENQAPVHFVGVGHC 104
   :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 61 SEFYSDCNVTSRCPKYKLLKSTNTPCVTCENQAPVHFVGVGSC 104

RESULT 11
US-08-891-848-13
; Sequence 13, Application US/08891848
; Patent No. 5955073
; GENERAL INFORMATION:
; APPLICANT: Rybak, Susanna M.
; APPLICANT: Youle, Richard J.
; APPLICANT: Newton, Dianne L.
; APPLICANT: Nicholls, Peter J.
; TITLE OF INVENTION: Selective RNase Cytotoxic Reagents
; NUMBER OF SEQUENCES: 19
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, Eighth Floor
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/891,848
; FILING DATE: No. 5955073 yet assigned
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/125,462
; FILING DATE: 22-SEP-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/014,082
; FILING DATE: 04-FEB-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/779,195
; FILING DATE: 22-OCT-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/510,696
; FILING DATE: 20-APR-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Weber, Ellen Lauver
; REGISTRATION NUMBER: 32,762
; REFERENCE/DOCKET NUMBER: 015280-110310US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 576-0200
; TELEFAX: (415) 576-0300
; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
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; LENGTH: 104 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
; NAME/KEY: Protein
; LOCATION: 1..104
; OTHER INFORMATION: /label=Onc
; OTHER INFORMATION: /note="Oncogene from Rana pipiens"
US-08-891-848-13

Query Match          95.3%; Score 550; DB 2; Length 104;
Best Local Similarity 94.2%; Pred. No. 1.6e-59;
Matches 98; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

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Db 1 EDWLTFFQKKHITNTRDVCNNILSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60
QY 61 SEFYLSDCNVTSRPCYKYLKXSTNTFCVTCEQAPVHFVGVGHC 104
Db 61 SEFYLSDCNVTSRPCYKYLKXSTNTFCVTCEQAPVHFVGVGSC 104

RESULT 12
US-09-394-268-2
; Sequence 2, Application US/09394268
; Patent No. 6175003
; GENERAL INFORMATION:
; APPLICANT: Saxena, Shailendra K
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING RIBONUCLEASES AND METHODS OF
; FILE REFERENCE: 5013
; CURRENT APPLICATION NUMBER: US/09/394,268
; CURRENT FILING DATE: 1999-09-10
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 104
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: SEQ ID NO:1 with Leu at position 23 and Cys at
; OTHER INFORMATION: position 72
US-09-394-268-2

Query Match          95.3%; Score 550; DB 3; Length 104;
Best Local Similarity 95.2%; Pred. No. 1.6e-59;
Matches 99; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 1 QDWLTFQKKHITNTRDVCNNILSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60
Db 1 QDWLTFQKKHITNTRDVCNNILSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60
QY 61 SEFYLSDCNVTSRPCYKYLKXSTNTFCVTCEQAPVHFVGVGHC 104
Db 61 SEFYLSDCNVTSRPCYKYLKXSTNTFCVTCEQAPVHFVGVGSC 104

RESULT 13
US-09-687-748-2
; Sequence 2, Application US/09687748
; Patent No. 6423515
; GENERAL INFORMATION:
; APPLICANT: Saxena, Shailendra K
; TITLE OF INVENTION: METHODS OF MAKING NUCLEIC ACIDS ENCODING RIBONUCLEASES
; FILE REFERENCE: 5013 US 01
; CURRENT APPLICATION NUMBER: US/09/687,748
; CURRENT FILING DATE: 2000-10-14
; PRIOR APPLICATION NUMBER: 09/394,268
; PRIOR FILING DATE: 1999-09-10
; NUMBER OF SEQ ID NOS: 8

; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 104
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: SEQ ID NO:1 with Leu at position 23 and Cys at
; OTHER INFORMATION: position 72
US-09-687-748-2

Query Match          95.3%; Score 550; DB 4; Length 104;
Best Local Similarity 95.2%; Pred. No. 1.6e-59;
Matches 99; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

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Db 1 QDWLTFQKKHITNTRDVCNNILSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60
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Db 61 SEFYLSDCNVTSRPCYKYLKXSTNTFCVTCEQAPVHFVGVGSC 104

RESULT 14
US-08-626-288-2
; Sequence 2, Application US/08626288
; Patent No. 6649392
; GENERAL INFORMATION:
; APPLICANT: Youle, Richard
; APPLICANT: Vasandani, Veena
; APPLICANT: Wu, Yon-Neng
; APPLICANT: Boix, Ester
; APPLICANT: Ardelt, Wojciech
; TITLE OF INVENTION: A Mutant Form of Cytotoxic Protein Which
; TITLE OF INVENTION: Allows Production by Recombinant Methods
; NUMBER OF SEQUENCES: 3
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94105-1492
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/626,288
; FILING DATE: No. 6649392 yet assigned
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: Ran, David B.
; REGISTRATION NUMBER: 38,589
; REFERENCE/DOCKET NUMBER: 15280-267
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 543-9500
; TELEFAX: (415) 543-5043
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 104 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
; NAME/KEY: Modified-site
; LOCATION: 1
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; OTHER INFORMATION: /note="Xaa = pyroglutamic acid
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; OTHER INFORMATION: 5-oxo-2-pyrrolidinecarboxylic acid"
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US-08-626-288-2

Query Match 95.3%; Score 550; DB 4; Length 104;  
Best Local Similarity 96.1%; Pred. No. 1.6e-59;  
Matches 99; Conservative 2; Mismatches 2; Indels 0; Gaps 0;  
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QY 62 EYFLSDCNVTSRCKYKLLKSTNTFCVTCENQAPVHFVGVGHC 104  
Db 62 EYFLSDCNVTSRCKYKLLKSTNTFCVTCENQAPVHFVGVGSC 104

## RESULT 15

US-09-095-429-2  
; Sequence 2, Application US/09095429  
; Patent No. 6649393  
; GENERAL INFORMATION:  
; APPLICANT: Youle, Richard  
; APPLICANT: Vasandani, Veena  
; APPLICANT: Wu, Yon-Neng  
; APPLICANT: Boix, Ester  
; APPLICANT: Argelt, Wojciech  
; TITLE OF INVENTION: A Mutant Form of Cytotoxic Protein Which  
; TITLE OF INVENTION: Allows Production by Recombinant Methods  
; NUMBER OF SEQUENCES: 3  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Townsend and Townsend and Crew  
; STREET: One Market Plaza, Steuart Street Tower  
; CITY: San Francisco  
; STATE: California  
; COUNTRY: USA  
; ZIP: 94105-1492  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/095,429  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/626,288  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Ran, David B.  
; REGISTRATION NUMBER: 38,589  
; REFERENCE/DOCKET NUMBER: 15280-267  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (415) 543-9600  
; TELEFAX: (415) 543-5043  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 104 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; FEATURE:  
; NAME/KEY: Modified-site  
; LOCATION: 1  
; OTHER INFORMATION: /product= "OTHER"  
; OTHER INFORMATION: /note= "Xaa = pyroglutamic acid  
; OTHER INFORMATION: (2-pyrrolidone-5-carboxylic acid or  
; OTHER INFORMATION: 5-oxo-2-pyrrolidinecarboxylic acid)"  
US-09-095-429-2

Query Match 95.3%; Score 550; DB 4; Length 104;  
Best Local Similarity 96.1%; Pred. No. 1.6e-59;  
Matches 99; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 2 DMLTFQKKHLTNRDVCNNILSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLTTS 61  
Db 2 DMLTFQKKHLTNRDVCNNILSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLTTS 61  
QY 62 EYFLSDCNVTSRCKYKLLKSTNTFCVTCENQAPVHFVGVGHC 104  
Db 62 EYFLSDCNVTSRCKYKLLKSTNTFCVTCENQAPVHFVGVGSC 104

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GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: October 19, 2004, 09:04:37 ; Search time 69.1675 Seconds  
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Title: US-09-622-613C-4  
Perfect score: 577  
Sequence: 1 QDWLTQKKHLNTRDVCN.....TFCVTCENQAPVHFVGHC 104

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Gapop 10.0 , Gapext 0.5

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Minimum DB seq length: 0  
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Post-processing: Minimum Match 0%  
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Listing first 45 summaries

Database : Published Applications AA: \*  
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	575	99.7	104	10	US-09-961-400-2
3	575	99.7	105	10	US-09-948-391A-6
4	575	99.7	105	10	US-09-961-400-6
5	575	99.7	127	10	US-09-948-391A-28
6	575	99.7	127	10	US-09-961-400-28
7	571	99.0	104	10	US-09-948-391A-4
8	571	99.0	104	10	US-09-961-400-4
9	570	98.8	104	10	US-09-948-391A-11
10	570	98.8	104	10	US-09-961-400-11
11	570	98.8	105	10	US-09-948-391A-13
12	570	98.8	105	10	US-09-961-400-13
13	567	98.3	105	10	US-09-961-400-8
14	566	98.1	104	10	US-09-948-391A-2

15	562	97.4	105	10	US-09-948-391A-8	Sequence 8, Appli
16	562	97.4	111	10	US-09-948-391A-9	Sequence 9, Appli
17	553	95.8	104	16	US-10-331-910-9	Sequence 9, Appli
18	553	95.8	105	14	US-10-153-882-2	Sequence 2, Appli
19	550	95.3	104	16	US-10-331-910-1	Sequence 1, Appli
20	548	95.0	104	9	US-09-986-119-1	Sequence 1, Appli
21	548	95.0	104	10	US-09-918-887-1	Sequence 1, Appli
22	548	95.0	104	16	US-10-331-910-5	Sequence 5, Appli
23	545	94.5	104	15	US-10-461-713-53	Sequence 53, Appli
24	442	76.6	83	9	US-09-986-119-3	Sequence 3, Appli
25	442	76.6	83	10	US-09-918-887-3	Sequence 3, Appli
26	279.5	48.4	110	10	US-09-961-400-19	Sequence 19, Appli
27	279.5	48.4	111	10	US-09-948-391A-21	Sequence 21, Appli
28	279.5	48.4	111	10	US-09-961-400-21	Sequence 21, Appli
29	279.5	48.4	117	10	US-09-948-391A-22	Sequence 22, Appli
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31	278.5	48.3	110	10	US-09-948-391A-15	Sequence 15, Appli
32	278.5	48.3	110	10	US-09-961-400-15	Sequence 15, Appli
33	278.5	48.3	111	10	US-09-961-400-17	Sequence 17, Appli
34	273.5	47.4	110	10	US-09-948-391A-19	Sequence 19, Appli
35	273.5	47.4	110	10	US-09-948-391A-24	Sequence 24, Appli
36	273.5	47.4	110	10	US-09-961-400-24	Sequence 24, Appli
37	273.5	47.4	111	10	US-09-948-391A-26	Sequence 26, Appli
38	273.5	47.4	111	10	US-09-961-400-26	Sequence 26, Appli
39	272.5	47.2	111	10	US-09-948-391A-17	Sequence 17, Appli
40	156.5	27.1	169	13	US-10-016-447-2	Sequence 2, Appli
41	146	25.3	119	15	US-10-074-978A-139	Sequence 139, App
42	146	25.3	119	15	US-10-016-248-89	Sequence 89, Appl
43	130.5	22.6	145	15	US-10-432-819-34	Sequence 34, Appl
44	125.5	21.8	124	13	US-10-016-447-5	Sequence 5, Appli
45	122	21.1	124	15	US-10-037-417-103	Sequence 103, App

ALIGNMENTS

RESULT 1

US-09-961-400-9  
; Sequence 9, Application US/09961400  
; Publication No. US20030124131A1  
; GENERAL INFORMATION:  
; APPLICANT: RYBAK, SUSANNA M.  
; APPLICANT: GOLDENBERG, DAVID M.  
; APPLICANT: NEWTON, DIANNE L.  
; TITLE OF INVENTION: IMMUNOCONJUGATES OF TOXINS DIRECTED AGAINST MALIGNANT  
; TITLE OF INVENTION: CELLS  
; FILE REFERENCE: 018733/1059  
; CURRENT APPLICATION NUMBER: US/09/961,400  
; CURRENT FILING DATE: 2001-09-25  
; PRIOR APPLICATION NUMBER: 09/622,613  
; PRIOR FILING DATE: 2000-08-17  
; PRIOR APPLICATION NUMBER: PCT/US99/06641  
; PRIOR FILING DATE: 1999-03-26  
; PRIOR APPLICATION NUMBER: 60/079,751  
; PRIOR FILING DATE: 1998-03-26  
; NUMBER OF SEQ ID NOS: 43  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 9  
; LENGTH: 111  
; TYPE: PRT  
; ORGANISM: Rana pipiens  
US-09-961-400-9

Query Match 100.0%; Score 577; DB 10; Length 111;  
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Matches 104; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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Db 8 QDWLTQKKHLNTRDVCNNILSNLPHCKDKNTFIYSRPEPVKAIKGIITASKNVLTT 67  
QY 61 SEFYLDNCNVTSRPCYKYLKKSNTFCVTCENQAPVHFVGHC 104

Db 68 SEFYLSDCNVTSRPCKYKLLKSTNTFCVTCENQAPVHFVGVC 111

Query Match 99.7%; Score 575; DB 10; Length 105;  
Best Local Similarity 99.0%; Pred. No. 5.le-56;  
Matches 103; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

RESULT 2  
US-09-961-400-2  
; Sequence 2, Application US/09961400  
; Publication No. US20030124131A1  
; GENERAL INFORMATION:  
; APPLICANT: RYBAK, SUSANNA M.  
; APPLICANT: GOLDENBERG, DAVID M.  
; APPLICANT: NEWTON, DIANNE L.  
; TITLE OF INVENTION: IMMUNOCONJUGATES OF TOXINS DIRECTED AGAINST MALIGNANT  
; TITLE OF INVENTION: CELLS  
; FILE REFERENCE: 018733/1059  
; CURRENT APPLICATION NUMBER: US/09/961,400  
; CURRENT FILING DATE: 2001-09-25  
; PRIOR APPLICATION NUMBER: 09/622,613  
; PRIOR FILING DATE: 2000-08-17  
; PRIOR APPLICATION NUMBER: PCT/US99/06641  
; PRIOR FILING DATE: 1999-03-26  
; PRIOR APPLICATION NUMBER: 60/079,751  
; PRIOR FILING DATE: 1998-03-26  
; NUMBER OF SEQ ID NOS: 43  
; SOFTWARE: Patent In Ver. 2.1  
; SEQ ID NO 2  
; LENGTH: 104  
; TYPE: PRT  
; ORGANISM: Rana pipiens  
US-09-961-400-2

Query Match 99.7%; Score 575; DB 10; Length 104;  
Best Local Similarity 99.0%; Pred. No. 5e-56;  
Matches 103; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 QDWLTFOKKHLTNTTRDVCNNILSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60  
Db 1 QDWLTFOKKHLTNTTRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60

Qy 61 SEFYLSDCNVTSRPCKYKLLKSTNTFCVTCENQAPVHFVGVC 104  
Db 61 SEFYLSDCNVTSRPCKYKLLKSTNTFCVTCENQAPVHFVGVC 104

Query Match 99.7%; Score 575; DB 10; Length 105;  
Best Local Similarity 99.0%; Pred. No. 5.le-56;  
Matches 103; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

RESULT 3  
US-09-948-391A-6  
; Sequence 6, Application US/09948391A  
; Publication No. US20030027311A1  
; GENERAL INFORMATION:  
; APPLICANT: RYBAK, SUSANNA M.  
; APPLICANT: NEWTON, DIANNE L.  
; APPLICANT: The United States of America  
; APPLICANT: as represented by The Secretary of the  
; APPLICANT: Department of Health and Human Services  
; TITLE OF INVENTION: Recombinant Anti-Tumor RNase  
; FILE REFERENCE: 015280-343110US  
; CURRENT APPLICATION NUMBER: US/09/948,391A  
; CURRENT FILING DATE: 2002-05-10  
; PRIOR APPLICATION NUMBER: US 60/079,751  
; PRIOR FILING DATE: 1998-03-27  
; PRIOR APPLICATION NUMBER: WO PCT/US99/06641  
; PRIOR FILING DATE: 1999-03-26  
; PRIOR APPLICATION NUMBER: US 09/622,613  
; PRIOR FILING DATE: 2000-08-17  
; NUMBER OF SEQ ID NOS: 43  
; SOFTWARE: Patent In Ver. 2.0  
; SEQ ID NO 6  
; LENGTH: 105  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Rana pipiens  
; OTHER INFORMATION: ribonuclease with Met at position 1 (recombinant  
; OTHER INFORMATION: Met (-1) RAPLr1)

US-09-948-391A-6

Query Match 99.7%; Score 575; DB 10; Length 105;  
Best Local Similarity 99.0%; Pred. No. 5.le-56;  
Matches 103; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

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Qy 61 SEFYLSDCNVTSRPCKYKLLKSTNTFCVTCENQAPVHFVGVC 104  
Db 62 SEFYLSDCNVTSRPCKYKLLKSTNTFCVTCENQAPVHFVGVC 105

RESULT 4  
US-09-961-400-6  
; Sequence 6, Application US/09961400  
; Publication No. US20030124131A1  
; GENERAL INFORMATION:  
; APPLICANT: RYBAK, SUSANNA M.  
; APPLICANT: GOLDENBERG, DAVID M.  
; APPLICANT: NEWTON, DIANNE L.  
; TITLE OF INVENTION: IMMUNOCONJUGATES OF TOXINS DIRECTED AGAINST MALIGNANT  
; TITLE OF INVENTION: CELLS  
; FILE REFERENCE: 018733/1059  
; CURRENT APPLICATION NUMBER: US/09/961,400  
; CURRENT FILING DATE: 2001-09-25  
; PRIOR APPLICATION NUMBER: 09/622,613  
; PRIOR FILING DATE: 2000-08-17  
; PRIOR APPLICATION NUMBER: PCT/US99/06641  
; PRIOR FILING DATE: 1999-03-26  
; PRIOR APPLICATION NUMBER: 60/079,751  
; PRIOR FILING DATE: 1998-03-26  
; NUMBER OF SEQ ID NOS: 43  
; SOFTWARE: Patent In Ver. 2.1  
; SEQ ID NO 6  
; LENGTH: 105  
; TYPE: PRT  
; ORGANISM: Rana pipiens  
US-09-961-400-6

Query Match 99.7%; Score 575; DB 10; Length 105;  
Best Local Similarity 99.0%; Pred. No. 5.le-56;  
Matches 103; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 QDWLTFOKKHLTNTTRDVCNNILSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60  
Db 2 QDWLTFOKKHLTNTTRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 61

Qy 61 SEFYLSDCNVTSRPCKYKLLKSTNTFCVTCENQAPVHFVGVC 104  
Db 62 SEFYLSDCNVTSRPCKYKLLKSTNTFCVTCENQAPVHFVGVC 105

RESULT 5  
US-09-948-391A-28  
; Sequence 28, Application US/09948391A  
; Publication No. US20030027311A1  
; GENERAL INFORMATION:  
; APPLICANT: RYBAK, SUSANNA M.  
; APPLICANT: NEWTON, DIANNE L.  
; APPLICANT: The United States of America  
; APPLICANT: as represented by The Secretary of the  
; APPLICANT: Department of Health and Human Services  
; TITLE OF INVENTION: Recombinant Anti-Tumor RNase  
; FILE REFERENCE: 015280-343110US  
; CURRENT APPLICATION NUMBER: US/09/948,391A  
; CURRENT FILING DATE: 2002-05-10  
; PRIOR APPLICATION NUMBER: US 60/079,751  
; PRIOR FILING DATE: 1998-03-27  
; PRIOR APPLICATION NUMBER: WO PCT/US99/06641  
; PRIOR FILING DATE: 1999-03-26  
; PRIOR APPLICATION NUMBER: US 09/622,613  
; PRIOR FILING DATE: 2000-08-17  
; NUMBER OF SEQ ID NOS: 43  
; SOFTWARE: Patent In Ver. 2.0  
; SEQ ID NO 6  
; LENGTH: 105  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Rana pipiens  
; OTHER INFORMATION: ribonuclease with Met at position 1 (recombinant  
; OTHER INFORMATION: Met (-1) RAPLr1)



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; PRIOR APPLICATION NUMBER: US 09/622,613
; PRIOR FILING DATE: 2000-08-17
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 28
; LENGTH: 127
; TYPE: PRT
; ORGANISM: Rana pipiens
; FEATURE:
; OTHER INFORMATION: Rana pipiens ribonuclease (RapLr1) Clone 5a1b cDNA
; OTHER INFORMATION: insert
US-09-948-391A-28

Query Match          99.7%; Score 575; DB 10; Length 127;
Best Local Similarity 99.0%; Pred. No. 6.3e-56;
Matches 103; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 QDWLTFQKKHLNTRDVCNNILSTNLFHCKDKNTFIYSRPEPVKAICKGIASKNVLT 60
Db 24 QDWLTFQKKHLNTRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIASKNVLT 83
QY 61 SEFYSDCNVTSRPCKYKLLKSTNTFCVTCENQAPVHFVGVGHC 104
Db 84 SEFYSDCNVTSRPCKYKLLKSTNTFCVTCENQAPVHFVGVGHC 127

RESULT 6
US-09-961-400-28
; Sequence 28, Application US/09961400
; Publication No. US20030124131A1
; GENERAL INFORMATION:
; APPLICANT: RYBAK, SUSANNA M.
; APPLICANT: GOLDENBERG, DAVID M.
; APPLICANT: NEWTON, DIANNE L.
; TITLE OF INVENTION: IMMUNOCONJUGATES OF TOXINS DIRECTED AGAINST MALIGNANT
; FILE REFERENCE: 018733/1059
; CURRENT APPLICATION NUMBER: US/09/961,400
; PRIOR FILING DATE: 2001-09-25
; PRIOR APPLICATION NUMBER: 09/622,613
; PRIOR FILING DATE: 2000-08-17
; PRIOR APPLICATION NUMBER: PCT/US99/06641
; PRIOR FILING DATE: 1999-03-26
; PRIOR APPLICATION NUMBER: 60/079,751
; PRIOR FILING DATE: 1998-03-26
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 28
; LENGTH: 127
; TYPE: PRT
; ORGANISM: Rana pipiens
US-09-961-400-28

Query Match          99.7%; Score 575; DB 10; Length 127;
Best Local Similarity 99.0%; Pred. No. 6.3e-56;
Matches 103; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 QDWLTFQKKHLNTRDVCNNILSTNLFHCKDKNTFIYSRPEPVKAICKGIASKNVLT 60
Db 24 QDWLTFQKKHLNTRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIASKNVLT 83
QY 61 SEFYSDCNVTSRPCKYKLLKSTNTFCVTCENQAPVHFVGVGHC 104
Db 84 SEFYSDCNVTSRPCKYKLLKSTNTFCVTCENQAPVHFVGVGHC 127

RESULT 7
US-09-948-391A-4
; Sequence 4, Application US/09948391A
; Publication No. US20030027311A1
; GENERAL INFORMATION:
; APPLICANT: Rybak, Susanna M.
; APPLICANT: Newton, Dianne L.
```

```
; APPLICANT: The United States of America
; APPLICANT: as represented by The Secretary of the
; APPLICANT: Department of Health and Human Services
; TITLE OF INVENTION: Recombinant Anti-Tumor RNase
; FILE REFERENCE: 015280-343110US
; CURRENT APPLICATION NUMBER: US/09/948,391A
; CURRENT FILING DATE: 2002-05-10
; PRIOR APPLICATION NUMBER: US 60/079,751
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: WO PCT/US99/06641
; PRIOR FILING DATE: 1999-03-26
; PRIOR APPLICATION NUMBER: US 09/622,613
; PRIOR FILING DATE: 2000-08-17
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 104
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Rana pipiens
; OTHER INFORMATION: ribonuclease with Met23Leu substitution
; OTHER INFORMATION: (recombinant RapLr1 Met23Leu)
US-09-948-391A-4

Query Match          99.0%; Score 571; DB 10; Length 104;
Best Local Similarity 99.0%; Pred. No. 1.4e-55;
Matches 103; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 QDWLTFQKKHLNTRDVCNNILSTNLFHCKDKNTFIYSRPEPVKAICKGIASKNVLT 60
Db 1 QDWLTFQKKHLNTRDVCNNILSTNLFHCKDKNTFIYSRPEPVKAICKGIASKNVLT 60
QY 61 SEFYSDCNVTSRPCKYKLLKSTNTFCVTCENQAPVHFVGVGHC 104
Db 61 SEFYSDCNVTSRPCKYKLLKSTNTFCVTCENQAPVHFVGVGHC 104

RESULT 8
US-09-961-400-4
; Sequence 4, Application US/09961400
; Publication No. US20030124131A1
; GENERAL INFORMATION:
; APPLICANT: RYBAK, SUSANNA M.
; APPLICANT: GOLDENBERG, DAVID M.
; APPLICANT: NEWTON, DIANNE L.
; TITLE OF INVENTION: IMMUNOCONJUGATES OF TOXINS DIRECTED AGAINST MALIGNANT
; FILE REFERENCE: 018733/1059
; CURRENT APPLICATION NUMBER: US/09/961,400
; PRIOR FILING DATE: 2001-09-25
; PRIOR APPLICATION NUMBER: 09/622,613
; PRIOR FILING DATE: 2000-08-17
; PRIOR APPLICATION NUMBER: PCT/US99/06641
; PRIOR FILING DATE: 1999-03-26
; PRIOR APPLICATION NUMBER: 60/079,751
; PRIOR FILING DATE: 1998-03-26
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 104
; TYPE: PRT
; ORGANISM: Rana pipiens
US-09-961-400-4

Query Match          99.0%; Score 571; DB 10; Length 104;
Best Local Similarity 99.0%; Pred. No. 1.4e-55;
Matches 103; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 QDWLTFQKKHLNTRDVCNNILSTNLFHCKDKNTFIYSRPEPVKAICKGIASKNVLT 60
Db 1 QDWLTFQKKHLNTRDVCNNILSTNLFHCKDKNTFIYSRPEPVKAICKGIASKNVLT 60
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Qy 61 SEFYLSDCNVTSRPPCKYKLLKKSTNTFCVTCENQAPVHFVGVGHC 104  
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 Db 61 FEFYLSDCNVTSRPPCKYKLLKKSTNTFCVTCENQAPVHFVGVGHC 104

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RESULT 9
US-09-948-391A-11
; Sequence 11, Application US/09948391A
; Publication No. US20030027311A1
; GENERAL INFORMATION:
; APPLICANT: Rybak, Susanna M.
; APPLICANT: Newton, Dianne L.
; APPLICANT: The United States of America
; APPLICANT: as represented by The Secretary of the
; APPLICANT: Department of Health and Human Services
; TITLE OF INVENTION: Recombinant Anti-Tumor RNase
; FILE REFERENCE: 015280-343110US
; CURRENT APPLICATION NUMBER: US/09/948,391A
; CURRENT FILING DATE: 2002-05-10
; PRIOR APPLICATION NUMBER: US 60/079,751
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: WO PCT/US99/06641
; PRIOR FILING DATE: 1999-03-26
; PRIOR APPLICATION NUMBER: US 09/622,613
; PRIOR FILING DATE: 2000-08-17
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 11
; LENGTH: 104
; TYPE: PR1
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:Rana pipiens
; OTHER INFORMATION: ribonuclease with Gln1Ser substitution
; OTHER INFORMATION: (recombinant RapLr1 Q1S)
US-09-948-391A-11

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	Query Match	98.8%	Score 570	DB 10	Length 104
	Best Local Similarity	99.0%	Pred. No. 1.8e-55		
	Matches 102	Conservative 1	Mismatches 0	Indels 0	Gaps 0
Qy	2	DWLTFQKKHLTNRDVPDNNILSNLPHCKDKNTFIYSRPEPKAICKGIASKNVLTT	61		
Db	2	DWLTFQKKHLTNRDVPDNNIMSNLPHCKDKNTFIYSRPEPKAICKGIASKNVLTT	61		
Qy	62	EFLVSDCNVTSRPCKYKLLKKSNTFCVTCENQAPVHFVGVGHC	104		
Db	62	EFLVSDCNVTSRPCKYKLLKKSNTFCVTCENQAPVHFVGVGHC	104		

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RESULT 10
US-09-961-400-11
; Sequence 11, Application US/09961400
; Publication No. US20030124131A1
; GENERAL INFORMATION:
; APPLICANT: RYBAK, SUSANNA M.
; APPLICANT: GOLDENBERG, DAVID M.
; APPLICANT: NEWTON, DIANNE L.
; TITLE OF INVENTION: IMMUNOCONJUGATES OF TOXINS DIRECTED AGAINST MALIGNANT
; TITLE OF INVENTION: CELLS
; FILE REFERENCE: 018733/1059
; CURRENT APPLICATION NUMBER: US/09/961.400
; CURRENT FILING DATE: 2001-09-25
; PRIOR APPLICATION NUMBER: 09/622,613
; PRIOR FILING DATE: 2000-08-17
; PRIOR APPLICATION NUMBER: PCT/US99/06641
; PRIOR FILING DATE: 1999-03-26
; PRIOR APPLICATION NUMBER: 60/079,751
; PRIOR FILING DATE: 1998-03-26
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 11
; LENGTH: 104

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; TYPE: PRT
; ORGANISM: Rana pipiens
US-09-961-400-11

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	Query Match	98.8%	Score 570;	DB 10;	Length 104;
	Best Local Similarity	99.0%	Pred. No. 1.8e-55;		
	Matches 102;	Conservative	1;	Mismatches 0;	Indels 0;
QY	2	DWLTFOKKHLNTRD	VDCNNILSTNL	EHCKDKNTFIYSR	PEPKYAKCKGHIASKNVLTTS 61
Db	2	DWLTFOKKHLNTRD	VDCNNILSTNL	EHCKDKNTFIYSR	PEPKYAKCKGHIASKNVLTTS 61
QY	62	EFLYSDCNVTSR	PCCKYKLAKKSTNT	FCVTCENQAPVHFV	GVGHC 104
Db	62	EFLYSDCNVTSR	PCCKYKLAKKSTNT	FCVTCENQAPVHFV	GVGHC 104

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RESULT 11
US-09-948-391A-13
; Sequence 13, Application US/09948391A
; Publication No. US20030027311A1
; GENERAL INFORMATION:
; APPLICANT: Rybak, Susanna M.
; APPLICANT: Newton, Dianne L.
; APPLICANT: The United States of America
; APPLICANT: as represented by the Secretary of the
; APPLICANT: Department of Health and Human Services
; TITLE OF INVENTION: Recombinant Anti-Tumor RNase
; FILE REFERENCE: 015280-343110US
; CURRENT APPLICATION NUMBER: US/09/948,391A
; CURRENT FILING DATE: 2002-05-10
; PRIOR APPLICATION NUMBER: US 60/079,751
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: WO PCT/US99/06641
; PRIOR FILING DATE: 1999-03-26
; PRIOR APPLICATION NUMBER: US 09/622,613
; PRIOR FILING DATE: 2000-08-17
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 13
; LENGTH: 105
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:Rana pipiens
; OTHER INFORMATION: ribonuclease with Met at position 1 and Gln2Ser
; OTHER INFORMATION: substitution (recombinant Met(-1) RaaPRL1 Q1S)
US-09-948-391A-13

```

	Query Match	98.8%	Score 570;	DB 10;	Length 105;
	Best Local Similarity	99.0%;	Pred. No. 1.8e-55;		
	Matches 102; Conservative	1;	Mismatches 0;	Indels 0;	Gaps 0;
Qy	2 DLTTFKKKHITNTDRVDNNILSTNLFHCKDKNTFIYSRPEPVKAI CKGIASKNVLTTS	61			
Dd	3 DLTTFKKKHITNTDRVDNNIMSTNLFHCKDKNTFIYSRPEPVKAI CKGIASKNVLTTS	62			
Qy	62 EFLSDCNVSRPCKYIKKSTNTFCVTCENQAPVHEVGVC	104			
Dd	63 EFVI-SDNVSRPCKYIKYSTNTFCVTCENQAPVHEVGVC	105			

RESULT 12  
US-09-961-400-13  
; Sequence 13, Application US/09961400  
; Publication No. US20030124131A1  
; GENERAL INFORMATION:  
; APPLICANT: RYBAK, SUSANNA M.  
; APPLICANT: GOLDENBERG, DAVID M.  
; APPLICANT: NEWTON, DIANNE L.  
; TITLE OF INVENTION: IMMUNOCONJUGATES OF TOXINS DIRECTED AGAINST MALIGNANT  
; TITLE OF INVENTION: CELLS  
; FILE REFERENCE: 018733/1059

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; CURRENT APPLICATION NUMBER: US/09/961,400
; CURRENT FILING DATE: 2001-09-25
; PRIOR APPLICATION NUMBER: 09/622,613
; PRIOR FILING DATE: 2000-08-17
; PRIOR APPLICATION NUMBER: PCT/US99/06641
; PRIOR FILING DATE: 1999-03-26
; PRIOR APPLICATION NUMBER: 60/079,751
; PRIOR FILING DATE: 1998-03-26
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 13
; LENGTH: 105
; TYPE: PRT
; ORGANISM: Rana pipiens
US-09-961-400-13

Query Match      98.8%; Score 570; DB 10; Length 105;
Best Local Similarity 99.0%; Pred. No. 1.8e-55;
Matches 102; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY  2 DMLTFQKKHLNTRDVCNNILSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLTTS 61
    |||||
Db  3 DMLTFQKKHLNTRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLTTS 62
    |||||

QY  62 EFYLSDCNVTSPCKYKLLKSTNTFCVTCENQAPVHFVGVGHC 104
    |||||
Db  63 EFYLSDCNVTSPCKYKLLKSTNTFCVTCENQAPVHFVGVGHC 105
    |||||

RESULT 13
US-09-961-400-8
; Sequence 8, Application US/09961400
; Publication No. US20030124131A1
; GENERAL INFORMATION:
; APPLICANT: RYBAK, SUSANNA M.
; APPLICANT: GOLDENBERG, DAVID M.
; APPLICANT: NEWTON, DIANNE L.
; TITLE OF INVENTION: IMMUNOCONJUGATES OF TOXINS DIRECTED AGAINST MALIGNANT
; TITLE OF INVENTION: CELLS
; FILE REFERENCE: 018733/1059
; CURRENT APPLICATION NUMBER: US/09/961,400
; CURRENT FILING DATE: 2001-09-25
; PRIOR APPLICATION NUMBER: 09/622,613
; PRIOR FILING DATE: 2000-08-17
; PRIOR APPLICATION NUMBER: PCT/US99/06641
; PRIOR FILING DATE: 1999-03-26
; PRIOR APPLICATION NUMBER: 60/079,751
; PRIOR FILING DATE: 1998-03-26
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8:
; LENGTH: 105
; TYPE: PRT
; ORGANISM: Rana pipiens
US-09-961-400-8

Query Match      98.1%; Score 567; DB 10; Length 105;
Best Local Similarity 98.1%; Pred. No. 3.9e-55;
Matches 102; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY  1 QDWLTFQKKHLNTRDVCNNILSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60
    |||||
Db  2 QDWLTFQKKHLNTRDVCNNILSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 61
    |||||

QY  61 SEFYLSDCNVTSPCKYKLLKSTNTFCVTCENQAPVHFVGVGHC 104
    |||||
Db  62 FEYLSDCNATSPCKYKLLKSTNTFCVTCENQAPVHFVGVGHC 105
    |||||

RESULT 14
US-09-948-391A-2
; Sequence 2, Application US/09948391A
; Publication No. US20030027311A1
; GENERAL INFORMATION:
; APPLICANT: RYBAK, SUSANNA M.
; APPLICANT: NEWTON, DIANNE L.
; APPLICANT: as represented by The Secretary of the
; TITLE OF INVENTION: Recombinant Anti-Tumor RNase
; FILE REFERENCE: 015280-343110US
; CURRENT APPLICATION NUMBER: US/09/948,391A
; CURRENT FILING DATE: 2002-05-10
; PRIOR APPLICATION NUMBER: US 60/079,751
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: WO PCT/US99/06641
; PRIOR FILING DATE: 1999-03-26
; PRIOR APPLICATION NUMBER: US 09/622,613
; PRIOR FILING DATE: 2000-08-17
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 8
; LENGTH: 105
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Rana pipiens
; OTHER INFORMATION: ribonuclease with Met at position 1 and Met24Leu
; OTHER INFORMATION: substitution (recombinant Met(-1) RapLr1 Met23Leu)
US-09-948-391A-8

Query Match      97.4%; Score 562; DB 10; Length 105;
Best Local Similarity 98.1%; Pred. No. 1.4e-54;
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; GENERAL INFORMATION:
; APPLICANT: Rybak, Susanna M.
; APPLICANT: Newton, Dianne L.
; APPLICANT: The United States of America
; APPLICANT: as represented by The Secretary of the
; APPLICANT: Department of Health and Human Services
; TITLE OF INVENTION: Recombinant Anti-Tumor RNase
; FILE REFERENCE: 015280-343110US
; CURRENT APPLICATION NUMBER: US/09/948,391A
; CURRENT FILING DATE: 2002-05-10
; PRIOR APPLICATION NUMBER: US 60/079,751
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: WO PCT/US99/06641
; PRIOR FILING DATE: 1999-03-26
; PRIOR APPLICATION NUMBER: US 09/622,613
; PRIOR FILING DATE: 2000-08-17
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 104
; TYPE: PRT
; ORGANISM: Rana pipiens
; FEATURE:
; OTHER INFORMATION: ribonuclease (RapLr1)
US-09-948-391A-2

Query Match      98.1%; Score 566; DB 10; Length 104;
Best Local Similarity 98.1%; Pred. No. 5e-55;
Matches 102; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY  1 QDWLTFQKKHLNTRDVCNNILSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60
    |||||
Db  1 QDWLTFQKKHLNTRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60
    |||||

QY  61 SEFYLSDCNVTSPCKYKLLKSTNTFCVTCENQAPVHFVGVGHC 104
    |||||
Db  61 SEFYLSDCNVTSPCKYKLLKSTNTFCVTCENQAPVHFVGVGHC 104
    |||||

RESULT 15
US-09-948-391A-8
; Sequence 8, Application US/09948391A
; Publication No. US20030027311A1
; GENERAL INFORMATION:
; APPLICANT: Rybak, Susanna M.
; APPLICANT: Newton, Dianne L.
; APPLICANT: The United States of America
; APPLICANT: as represented by The Secretary of the
; APPLICANT: Department of Health and Human Services
; TITLE OF INVENTION: Recombinant Anti-Tumor RNase
; FILE REFERENCE: 015280-343110US
; CURRENT APPLICATION NUMBER: US/09/948,391A
; CURRENT FILING DATE: 2002-05-10
; PRIOR APPLICATION NUMBER: US 60/079,751
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: WO PCT/US99/06641
; PRIOR FILING DATE: 1999-03-26
; PRIOR APPLICATION NUMBER: US 09/622,613
; PRIOR FILING DATE: 2000-08-17
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 8
; LENGTH: 105
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Rana pipiens
; OTHER INFORMATION: ribonuclease with Met at position 1 and Met24Leu
; OTHER INFORMATION: substitution (recombinant Met(-1) RapLr1 Met23Leu)
US-09-948-391A-8

Query Match      97.4%; Score 562; DB 10; Length 105;
Best Local Similarity 98.1%; Pred. No. 1.4e-54;
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	Matches	102;	Conservative	0;	Mismatches	2;	Indels	0;	Gaps	0;
Qy	1	QDWLTFQKKHLNTRDVCNNILSTNLFHCKDKNTFIYSRPEPVKAICKGIASKNVLT	60							
Db	2	QDWLTFQKKHLNTRDVCNNILSTNLFHCKDKNTFIYSRPEPVKAICKGIASKNVLT	61							
Qy	61	SEFYLDGCVTSRCKYKLLKSTNTFCVTENQAPVHFVGVC	104							
Db	62	FEFYLDGCVTSRCKYKLLKSTNTFCVTENQAPVHFVGVC	105							

Search completed: October 19, 2004, 09:23:05  
Job time : 69.4175 secs

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: October 19, 2004, 09:04:37 ; Search time 22.8589 Seconds  
(without alignments)  
304.626 Million cell updates/sec

Title: US-09-622-613C-6

Perfect score: 583

Sequence: 1 MQDWLTFQKHLNTRDVC.....TFCVTCENQAPVHFVGVGHC 105

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 478139 seqs, 66318000 residues

Total number of hits satisfying chosen parameters: 478139

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA.\*

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3: /cgn2\_6/ptodata/1/iaa/6A COMB.pap.\*

4: /cgn2\_6/ptodata/1/iaa/6B COMB.pap.\*

5: /cgn2\_6/ptodata/1/iaa/PCTUS COMB.pap.\*

6: /cgn2\_6/ptodata/1/iaa/backfiles1.pap.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	558	95.7	104	1	US-08-467-955-2
2	558	95.7	105	3	US-08-875-811-39
3	558	95.7	355	3	US-08-875-811-41
4	558	95.7	358	3	US-08-875-811-51
5	556	95.4	104	3	US-09-394-268-1
6	556	95.4	104	4	US-09-687-748-1
7	556	95.4	104	4	US-08-826-288-1
8	556	95.4	104	4	US-09-095-429-1
9	556	95.4	112	3	US-08-875-811-32
10	556	95.4	129	3	US-08-875-811-63
11	556	95.4	251	3	US-08-875-811-59
12	556	95.4	254	3	US-08-875-811-61
13	556	95.4	355	3	US-08-875-811-49
14	556	95.4	355	3	US-08-875-811-57
15	556	95.4	355	3	US-08-875-811-64
16	556	95.4	366	3	US-08-875-811-55
17	556	95.4	379	3	US-08-875-811-43
18	553	94.9	104	1	US-08-283-971-1
19	553	94.9	104	1	US-07-921-619-1
20	553	94.9	104	1	US-08-467-955-1
21	553	94.9	104	2	US-08-891-848-13
22	551	94.5	104	3	US-08-875-811-1
23	551	94.5	104	4	US-09-071-672-1
24	551	94.5	104	4	US-09-986-119-1
25	551	94.5	105	3	US-08-875-811-26
26	551	94.5	106	3	US-08-875-811-28
27	551	94.5	107	3	US-08-875-811-30

28 550 94.3 105 3 US-08-875-811-24  
29 548 94.0 104 3 US-09-394-268-2  
30 548 94.0 104 4 US-09-687-748-2  
31 548 94.0 104 4 US-08-826-288-2  
32 548 94.0 104 4 US-09-095-429-2  
33 547 93.8 358 3 US-08-875-811-45  
34 547 93.8 365 3 US-08-875-811-53  
35 528 90.6 107 3 US-08-875-811-20  
36 495 84.9 360 3 US-08-875-811-47  
37 483.5 82.9 111 3 US-08-875-811-22  
38 445 76.3 83 3 US-08-875-811-2  
39 445 76.3 83 3 US-09-071-672-3  
40 445 76.3 83 4 US-09-986-119-3  
41 289 49.6 111 2 US-08-891-848-12  
42 289 49.6 111 3 US-08-875-811-8  
43 217.5 37.3 114 3 US-09-223-118-4  
44 205.5 35.2 114 3 US-09-223-118-2  
45 204.5 35.1 114 3 US-09-223-118-1

#### ALIGNMENTS

#### RESULT 1

US-08-467-955-2  
; Sequence 2, Application US/08467955  
; Patent No. 5728805  
; GENERAL INFORMATION:  
; APPLICANT: Ardelt Ph.D, Wojciech J.  
; TITLE OF INVENTION: PHARMACEUTICALS AND METHOD FOR MAKING THEM  
; NUMBER OF SEQUENCES: 2  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Mark H. Jay, P.A.  
; STREET: P.O. Box E  
; CITY: Short Hills  
; STATE: New Jersey  
; COUNTRY: USA  
; ZIP: 07078-0383  
; COMPUTER READABLE FORM: disk  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.24  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/467,955  
; FILING DATE:  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/178,118  
; FILING DATE: 06-APR-1988  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/436,141  
; FILING DATE: 13-NOV-1989  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/814,332  
; FILING DATE: 03-FEB-1992  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/283,970  
; FILING DATE: 01-AUG-1994  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Jay, Mark H.  
; REGISTRATION NUMBER: 27507  
; REFERENCE/DOCKET NUMBER: 5007 US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 201-912-9066  
; TELEFAX: 201-912-0442  
; TELEX: No. 5728805 Applicable  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 104 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear

Sequence 24, Appl  
Sequence 2, Appl  
Sequence 2, Appl  
Sequence 2, Appl  
Sequence 2, Appl  
Sequence 45, Appl  
Sequence 53, Appl  
Sequence 20, Appl  
Sequence 47, Appl  
Sequence 22, Appl  
Sequence 2, Appl  
Sequence 3, Appl  
Sequence 3, Appl  
Sequence 12, Appl  
Sequence 8, Appl  
Sequence 2, Appl  
Sequence 1, Appl

MOLECULE TYPE: protein  
HYPOTHETICAL: N  
ANTI-SENSE: N  
FRAGMENT TYPE: N-terminal  
ORIGINAL SOURCE: Rana pipiens  
DEVELOPMENTAL STAGE: Oocyte  
US-08-467-955-2

Query Match 95.7%; Score 558; DB 1; Length 104;  
Best Local Similarity 96.2%; Pred. No. 2.8e-60;  
Matches 100; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 2 QDWLTFQKKHLLTNRDVCNNIMSTNLFHCKDKNTFYSRPEPVKAICKGIIASKNVLT 61  
DB 1 EDWLTFFQKKHLLTNRDVCNNIMSTNLFHCKDKNTFYSRPEPVKAICKGIIASKNVLT 60

QY 62 SEFYLSDCNVTSRPCKYKLLKSTNTFCVTCEQAPVHFVGVGHC 105  
DB 61 SEFYLSDCNVTSRPCKYKLLKSTNTFCVTCEQAPVHFVGVGRC 104

RESULT 2  
US-08-875-811-39  
; Sequence 39, Application US/08875811  
; Patent No. 6045793  
; GENERAL INFORMATION:  
; APPLICANT: Rybak, Susanna M.  
; APPLICANT: Newton, Dianne L.  
; APPLICANT: Boque, Luis  
; APPLICANT: Wlodawer, Alexander  
; TITLE OF INVENTION: Recombinant Ribonuclease Proteins  
; NUMBER OF SEQUENCES: 64  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Townsend and Townsend and Crew LLP  
; STREET: Two Embarcadero Center, Eighth Floor  
; CITY: San Francisco  
; STATE: California  
; COUNTRY: USA  
; ZIP: 94111-3834  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/875,811  
; FILING DATE: 19-FEB-1998  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: WO PCT/US97/02588  
; FILING DATE: 19-FEB-1997  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 60/011,800  
; FILING DATE: 21-FEB-1996  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Paris, Susan K.  
; REGISTRATION NUMBER: 41,739  
; REFERENCE/DOCKET NUMBER: 015280-244100US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (415) 576-0200  
; TELEFAX: (415) 576-0300  
; INFORMATION FOR SEQ ID NO: 39:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 105 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-08-875-811-39

Query Match 95.7%; Score 558; DB 3; Length 105;  
Best Local Similarity 95.2%; Pred. No. 2.9e-60;  
Matches 100; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 1 MODWLTFFQKKHLLTNRDVCNNIMSTNLFHCKDKNTFYSRPEPVKAICKGIIASKNVLT 60  
DB 1 MEDWLTFFQKKHLLTNRDVCNNIMSTNLFHCKDKNTFYSRPEPVKAICKGIIASKNVLT 60

QY 61 TSEFYLSDCNVTSRPCKYKLLKSTNTFCVTCEQAPVHFVGVGHC 105  
DB 61 TSEFYLSDCNVTSRPCKYKLLKSTNTFCVTCEQAPVHFVGVGSC 105

RESULT 3  
US-08-875-811-41  
; Sequence 41, Application US/08875811  
; Patent No. 6045793  
; GENERAL INFORMATION:  
; APPLICANT: Rybak, Susanna M.  
; APPLICANT: Newton, Dianne L.  
; APPLICANT: Boque, Luis  
; APPLICANT: Wlodawer, Alexander  
; TITLE OF INVENTION: Recombinant Ribonuclease Proteins  
; NUMBER OF SEQUENCES: 64  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Townsend and Townsend and Crew LLP  
; STREET: Two Embarcadero Center, Eighth Floor  
; CITY: San Francisco  
; STATE: California  
; COUNTRY: USA  
; ZIP: 94111-3834  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/875,811  
; FILING DATE: 19-FEB-1998  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: WO PCT/US97/02588  
; FILING DATE: 19-FEB-1997  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 60/011,800  
; FILING DATE: 21-FEB-1996  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Paris, Susan K.  
; REGISTRATION NUMBER: 41,739  
; REFERENCE/DOCKET NUMBER: 015280-244100US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (415) 576-0200  
; TELEFAX: (415) 576-0300  
; INFORMATION FOR SEQ ID NO: 41:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 355 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-08-875-811-41

Query Match 95.7%; Score 558; DB 3; Length 355;  
Best Local Similarity 95.2%; Pred. No. 1.4e-59;  
Matches 100; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 1 MODWLTFFQKKHLLTNRDVCNNIMSTNLFHCKDKNTFYSRPEPVKAICKGIIASKNVLT 60  
DB 251 MEDWLTFFQKKHLLTNRDVCNNIMSTNLFHCKDKNTFYSRPEPVKAICKGIIASKNVLT 310

QY 61 TSEFYLSDCNVTSRPCKYKLLKSTNTFCVTCEQAPVHFVGVGHC 105  
DB 311 TSEFYLSDCNVTSRPCKYKLLKSTNTFCVTCEQAPVHFVGVGSC 355

RESULT 4  
US-08-875-811-51

```
; Sequence 51, Application US/08875811
; Patent No. 6045793
; GENERAL INFORMATION:
; APPLICANT: Rybak, Susanna M.
; APPLICANT: Newton, Dianne L.
; APPLICANT: Boque, Lluís
; APPLICANT: Wlodawer, Alexander
; TITLE OF INVENTION: Recombinant Ribonuclease Proteins
; NUMBER OF SEQUENCES: 64
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, Eighth Floor
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/875,811
; FILING DATE: 19-FEB-1998
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: WO PCT/US97/02588
; FILING DATE: 19-FEB-1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/011,800
; FILING DATE: 21-FEB-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Faris, Susan K.
; REGISTRATION NUMBER: 41,739
; REFERENCE/DOCKET NUMBER: 015280-24410005
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 576-0200
; TELEFAX: (415) 576-0300
; INFORMATION FOR SEQ ID NO: 51:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 358 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-875-811-51

Query Match 95.7%; Score 558; DB 3; Length 358;
Best Local Similarity 95.2%; Pred. No. 1.4e-59;
Matches 100; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 1 MDWLTFQKKHLNTRDVCNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIISKVLT 60
Db 1 MDWLTFQKKHITNTRDVCNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIISKVLT 60

QY 61 TSEFYSDCNVTSRCPCKYKLLKSTNTFCVTCENQAPVHFVGVGSC 105
Db 61 TSEFYSDCNVTSRCPCKYKLLKSTNTFCVTCENQAPVHFVGVGSC 105

RESULT 5
US-09-394-268-1
; Sequence 1, Application US/09394268
; Patent No. 6175003
; GENERAL INFORMATION:
; APPLICANT: Saxena, Shailendra K
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING RIBONUCLEASES AND METHODS OF
; MAKING THEM
; FILE REFERENCE: 5013
; CURRENT APPLICATION NUMBER: US/09/394,268
; CURRENT FILING DATE: 1999-09-10
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1

Query Match 95.4%; Score 556; DB 4; Length 104;
Best Local Similarity 96.2%; Pred. No. 5e-60;
Matches 100; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 2 QDWLTFQKKHLNTRDVCNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIISKVLT 61
Db 2 QDWLTFQKKHITNTRDVCNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIISKVLT 61

QY 62 SEFYLSDCNVTSPCKYKLLKSTNTFCVTCENQAPVHFVGVGHC 105
Db 62 SEFYLSDCNVTSPCKYKLLKSTNTFCVTCENQAPVHFVGVGSC 104

RESULT 6
US-09-687-748-1
; Sequence 1, Application US/09687748
; Patent No. 6423515
; GENERAL INFORMATION:
; APPLICANT: Saxena, Shailendra K
; TITLE OF INVENTION: METHODS OF MAKING NUCLEIC ACIDS ENCODING RIBONUCLEASES
; FILE REFERENCE: 5013 US 01
; CURRENT APPLICATION NUMBER: US/09/687,748
; CURRENT FILING DATE: 2000-10-14
; PRIOR APPLICATION NUMBER: 09/394,268
; PRIOR FILING DATE: 1999-09-10
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 104
; TYPE: PRT
; ORGANISM: Rana pipiens
; US-09-687-748-1

Query Match 95.4%; Score 556; DB 4; Length 104;
Best Local Similarity 96.2%; Pred. No. 5e-60;
Matches 100; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 2 QDWLTFQKKHLNTRDVCNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIISKVLT 61
Db 2 QDWLTFQKKHITNTRDVCNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIISKVLT 61

QY 62 SEFYLSDCNVTSPCKYKLLKSTNTFCVTCENQAPVHFVGVGHC 105
Db 62 SEFYLSDCNVTSPCKYKLLKSTNTFCVTCENQAPVHFVGVGSC 104

RESULT 7
US-08-626-288-1
; Sequence 1, Application US/08626288
; Patent No. 6649392
; GENERAL INFORMATION:
; APPLICANT: Youle, Richard
; APPLICANT: Vasandani, Veena
; APPLICANT: Wu, Yon-Neng
; APPLICANT: Boix, Ester
; APPLICANT: Argelt, Wojciech
; TITLE OF INVENTION: A Mutant Form of Cytotoxic Protein Which
; TITLE OF INVENTION: Allows Production by Recombinant Methods
; NUMBER OF SEQUENCES: 3
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew
; STREET: One Market Plaza, Steuart Street Tower
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94105-1492
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
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COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/626,288  
FILING DATE: No. 6649392 yet assigned  
CLASSIFICATION: 530  
ATTORNEY/AGENT INFORMATION:  
NAME: Ran, David B.  
REGISTRATION NUMBER: 38,589  
REFERENCE/DOCKET NUMBER: 15280-267  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (415) 543-9600  
TELEFAX: (415) 543-5043  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 104 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-626-288-1

Query Match 95.4%; Score 556; DB 4; Length 104;  
Best Local Similarity 96.2%; Pred. No. 5e-60;  
Matches 100; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 2 QDWLTFQKKHITNTRDVCNIMSTNLFHCKDKNTFYISRPVKAICKGIIASKNVLT 61  
DB 1 QDWLTFQKKHITNTRDVCNIMSTNLFHCKDKNTFYISRPVKAICKGIIASKNVLT 60  
QY 62 SEFYLSDCNVTSRPCYKYLKSTNTFCVTENQAPVHFVGVGHC 105  
DB 61 SEFYLSDCNVTSRPCYKYLKSTNTFCVTENQAPVHFVGVGSC 104

RESULT 8  
US-09-095-429-1  
Sequence 1, Application US/09095429  
Patent No. 6649393  
GENERAL INFORMATION:  
APPLICANT: Youle, Richard  
APPLICANT: Vasandani, Veena  
APPLICANT: Wu, Yon-Neng  
APPLICANT: Boix, Ester  
APPLICANT: Ardelt, Wojciech  
TITLE OF INVENTION: A Mutant Form of Cytotoxic Protein Which  
TITLE OF INVENTION: Allows Production by Recombinant Methods  
NUMBER OF SEQUENCES: 3  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Townsend and Townsend and Crew  
STREET: One Market Plaza, Steuart Street Tower  
CITY: San Francisco  
STATE: California  
COUNTRY: USA  
ZIP: 94105-1492  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/095,429  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/626,288  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Ran, David B.  
REGISTRATION NUMBER: 38,589  
REFERENCE/DOCKET NUMBER: 15280-267  
TELECOMMUNICATION INFORMATION:

TELEPHONE: (415) 543-9600  
TELEFAX: (415) 543-5043  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 104 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-095-429-1

Query Match 95.4%; Score 556; DB 4; Length 104;  
Best Local Similarity 96.2%; Pred. No. 5e-60;  
Matches 100; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 2 QDWLTFQKKHITNTRDVCNIMSTNLFHCKDKNTFYISRPVKAICKGIIASKNVLT 61  
DB 1 QDWLTFQKKHITNTRDVCNIMSTNLFHCKDKNTFYISRPVKAICKGIIASKNVLT 60  
QY 62 SEFYLSDCNVTSRPCYKYLKSTNTFCVTENQAPVHFVGVGHC 105  
DB 61 SEFYLSDCNVTSRPCYKYLKSTNTFCVTENQAPVHFVGVGSC 104

RESULT 9  
US-08-875-811-32  
Sequence 32, Application US/08875811  
Patent No. 6045793  
GENERAL INFORMATION:  
APPLICANT: Rybak, Susanna M.  
APPLICANT: Newton, Dianne L.  
APPLICANT: Boque, Lluis  
APPLICANT: Wlodawer, Alexander  
TITLE OF INVENTION: Recombinant Ribonuclease Proteins  
NUMBER OF SEQUENCES: 64  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Townsend and Townsend and Crew LLP  
STREET: Two Embarcadero Center, Eighth Floor  
CITY: San Francisco  
STATE: California  
COUNTRY: USA  
ZIP: 94111-3834  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/875,811  
FILING DATE: 19-FEB-1998  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: WO PCT/US97/02589  
FILING DATE: 19-FEB-1997  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 60/011,800  
FILING DATE: 21-FEB-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Paris, Susan K.  
REGISTRATION NUMBER: 41,739  
REFERENCE/DOCKET NUMBER: 015280-244100US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (415) 576-0200  
TELEFAX: (415) 576-0300  
INFORMATION FOR SEQ ID NO: 32:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 112 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-875-811-32

Query Match 95.4%; Score 556; DB 3; Length 112;



Best Local Similarity 95.2%; Pred No. 5.5e-60;  
Matches 100; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

Qy	1	MDQWLTFQKGLHNTNRDVCNNIMSNLPHCKDKNTFYISREPPYKATCKGLIASKNVLIT	60
Db	8	MSDWLTFQKHITNTNRDVCDDNIMSNLPHCKDKNTFYISREPPYKATCKGLIASKNVLIT	67
Qy	61	TSFEYLSDCNVTSRPCYKILKKSNTNFCVTCENQAPVHFVGVGHC	105
Db	68	TSFEYLSDCNVTSRPCYKILKKSNTNFCVTCENQAPVHFVGVGSC	112

RESULT 10  
 US-08-875-811-63  
 ; Sequence 63, Application US/08875811  
 ; Patent No. 6045793  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Rybak, Susanna M.  
 ; APPLICANT: Newton, Dianne L.  
 ; APPLICANT: Boque, Lluis  
 ; APPLICANT: Wlodawer, Alexander  
 ; TITLE OF INVENTION: Recombinant Ribonuclease Proteins  
 ; NUMBER OF SEQUENCES: 64  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Townsend and Crew LLP  
 ; STREET: Two Embarcadero Center, Eighth Floor  
 ; CITY: San Francisco  
 ; STATE: California  
 ; COUNTRY: USA  
 ; ZIP: 94111-3834

Query Match	95.4%	Score 556;	DB 3;	Length 129;
Best Local Similarity	96.2%	Pred. No. 6.6e-60;		

Qy	2	QDMUTFOKKHLTNTRD	VDCNNIN	STNLF	CHCKDKN	TFIYSR	PEPVKA	CKGII	ASKNVLT	61
Db	26	QDMUTFOKKH	LTNTRD	VDCNNIN	STNLF	CHCKDKN	TFIYSR	PEPVKA	CKGII	85
Qy	62	SEFYLSDCNVTSP	CKYK	LKK	STNT	FCVT	CENQAPVH	FVG	GH	105
Db	86	SEFYLSDCNVTSP	CKYK	LKK	STNT	FCVT	CENQAPVH	FVG	GH	129

RESULT 11  
 US-08-875-811-59  
 Sequence 59, Application US/08875811  
 Patent No. 6045793  
 GENERAL INFORMATION:  
 APPLICANT: Rybak, Susanna M.  
 APPLICANT: Newtch, Dianne L.  
 APPLICANT: Boque, Luis  
 APPLICANT: Wlodawer, Alexander  
 TITLE OF INVENTION: Recombinant Ribonuclease Proteins  
 NUMBER OF SEQUENCES: 64  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Townsend and Townsend and Crew LLP  
 STREET: Two Embarcadero Center, Eighth Floor  
 CITY: San Francisco  
 STATE: California  
 COUNTRY: USA  
 ZIP: 94111-3834  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patentin Release #1.0, Version #1.30  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/875,811  
 FILING DATE: 19-FEB-1998  
 CLASSIFICATION: 435  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: WO PCT/US97/02588  
 FILING DATE: 19-FEB-1997  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 60/011,800  
 FILING DATE: 21-FEB-1996  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Paris, Susan K.  
 REGISTRATION NUMBER: 41,739  
 REFERENCE/DOCKET NUMBER: 015280-244100US  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (415) 576-0200  
 TELEFAX: (415) 576-0300  
 INFORMATION FOR SEQ ID NO: 59:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 251 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-08-875-811-59

Query Match	95.4%	Score 556;	DB 3;	Length 251;
Best Local Similarity	95.2%	Pred. No. 1.6e-59;		
Matches 100: Conservative	2;	Mismatches 3;	Indels 0;	Gaps 0;

Qy	1	MDWLTTQKXHLTNRDVEDCNINIMSTNLFHCKDKDNTFYISRPEPVKAI	60	CKGIIASKNVLT
Db	147	MSDWLTFTQKHITNRDVEDCNINIMSTNLFHCKDKDNTFYISRPEPVKAI	206	CKGIIASKNVLT
Qy	61	TSEFLSDCNVTSRPPCKYKLKXKSTNTFCVTENQAPVHFVGVGHC	105	
Db	207	TSEFLSDCNVTSRPPCKYKLKXKSTNTFCVTENQAPVHFVGVGSC	255	

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RESULT 12
: US-08-875-811-61
: Sequence 61, Application US/08875811
: Patent No. 6045793
: GENERAL INFORMATION:
: APPLICANT: Rybak, Susanna M.
: APPLICANT: Newton, Dianne L.
: APPLICANT: Boque, Lluís
: APPLICANT: Wlodawer, Alexander
: TITLE OF INVENTION: Recombinant Ribonuclease Proteins
: NUMBER OF SEQUENCES: 64
: CORRESPONDENCE ADDRESS:
:

```

; ADDRESSEE: Townsend and Townsend and Crew LLP  
; STREET: Two Embarcadero Center, Eighth Floor  
; CITY: San Francisco  
; STATE: California  
; COUNTRY: USA  
; ZIP: 94111-3834  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent in Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/875,811  
; FILING DATE: 19-FEB-1998  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: WO PCT/US97/02588  
; FILING DATE: 19-FEB-1997  
; NAME: Farris, Susan K.  
; REGISTRATION NUMBER: 41,739  
; REFERENCE/DOCKET NUMBER: 015280-244100US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (415) 576-0200  
; TELEFAX: (415) 576-0300  
; INFORMATION FOR SEQ ID NO: 61:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 254 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; US-08-875-811-61

Query Match 95.4%; Score 556; DB 3; Length 254;  
Best Local Similarity 95.2%; Pred. No. 1.6e-59;  
Matches 100; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 1 MQDWLTFQKKHLNTRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60  
DB 1 MSDWLTQKKHITNTRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60

QY 61 TSEFVLSDCNVTSPCKYKLLKSKNTFCVTCENQAPVHFVGVC 105  
DB 61 TSEFVLSDCNVTSPCKYKLLKSKNTFCVTCENQAPVHFVGVC 105

RESULT 13  
US-08-875-811-49  
; Sequence 49, Application US/08875811  
; Patent No. 6045793  
; GENERAL INFORMATION:  
; APPLICANT: Rybak, Susanna M.  
; APPLICANT: Newton, Dianne L.  
; APPLICANT: Boque, Lluis  
; APPLICANT: Wlodawer, Alexander  
; TITLE OF INVENTION: Recombinant Ribonuclease Proteins  
; NUMBER OF SEQUENCES: 64  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Townsend and Townsend and Crew LLP  
; STREET: Two Embarcadero Center, Eighth Floor  
; CITY: San Francisco  
; STATE: California  
; COUNTRY: USA  
; ZIP: 94111-3834  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent in Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/875,811  
; FILING DATE: 19-FEB-1998  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: WO PCT/US97/02588  
; FILING DATE: 19-FEB-1997  
; NAME: Farris, Susan K.  
; REGISTRATION NUMBER: 41,739  
; REFERENCE/DOCKET NUMBER: 015280-244100US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (415) 576-0200  
; TELEFAX: (415) 576-0300  
; INFORMATION FOR SEQ ID NO: 49:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 355 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; US-08-875-811-49

Query Match 95.4%; Score 556; DB 3; Length 355;  
Best Local Similarity 95.2%; Pred. No. 2.5e-59;  
Matches 100; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 1 MQDWLTFQKKHLNTRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60  
DB 251 MSDWLTQKKHITNTRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 310

QY 61 TSEFVLSDCNVTSPCKYKLLKSKNTFCVTCENQAPVHFVGVC 105  
DB 311 TSEFVLSDCNVTSPCKYKLLKSKNTFCVTCENQAPVHFVGVC 355

RESULT 14  
US-08-875-811-57  
; Sequence 57, Application US/08875811  
; Patent No. 6045793  
; GENERAL INFORMATION:  
; APPLICANT: Rybak, Susanna M.  
; APPLICANT: Newton, Dianne L.  
; APPLICANT: Boque, Lluis  
; APPLICANT: Wlodawer, Alexander  
; TITLE OF INVENTION: Recombinant Ribonuclease Proteins  
; NUMBER OF SEQUENCES: 64  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Townsend and Townsend and Crew LLP  
; STREET: Two Embarcadero Center, Eighth Floor  
; CITY: San Francisco  
; STATE: California  
; COUNTRY: USA  
; ZIP: 94111-3834  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent in Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/875,811  
; FILING DATE: 19-FEB-1998  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: WO PCT/US97/02588  
; FILING DATE: 19-FEB-1997  
; NAME: Farris, Susan K.  
; REGISTRATION NUMBER: 41,739  
; REFERENCE/DOCKET NUMBER: 015280-244100US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (415) 576-0200  
; TELEFAX: (415) 576-0300  
; INFORMATION FOR SEQ ID NO: 49:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 355 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; US-08-875-811-49

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; REFERENCE/DOCKET NUMBER: 015280-244100US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 576-0200
; TELEFAX: (415) 576-0300
; INFORMATION FOR SEQ ID NO: 57:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 355 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-875-811-57

Query Match          95.4%; Score 556; DB 3; Length 355;
Best Local Similarity 95.2%; Pred. No. 2.5e-59;
Matches 100; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

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Db 1 MSDWLTQKKHITNTRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIASKNVLT 60

Qy 61 TSEFYLSDCNVTSPCKYKLLKSTNTFCVTCENQAPVHFVGVGHC 105
Db 61 TSEFYLSDCNVTSPCKYKLLKSTNTFCVTCENQAPVHFVGVGSC 105

RESULT 15
US-08-875-811-64
; Sequence 64, Application US/08875811
; Patent No. 6045793
; GENERAL INFORMATION:
; APPLICANT: Rybak, Susanna M.
; APPLICANT: Newton, Dianne L.
; APPLICANT: Boque, Lluís
; APPLICANT: Wlodawer, Alexander
; TITLE OF INVENTION: Recombinant Ribonuclease Proteins
; NUMBER OF SEQUENCES: 64
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, Eighth Floor
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/875,811
; FILING DATE: 19-FEB-1998
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: WO PCT/US97/02588
; FILING DATE: 19-FEB-1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/011,800
; FILING DATE: 21-FEB-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Farris, Susan K.
; REGISTRATION NUMBER: 41,739
; REFERENCE/DOCKET NUMBER: 015280-244100US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 576-0200
; TELEFAX: (415) 576-0300
; INFORMATION FOR SEQ ID NO: 64:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 355 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:

; NAME/KEY: Protein
; LOCATION: 1..355
; OTHER INFORMATION: /note= "E6FB[Met-(-1)]Serronc"
; US-08-875-811-64

Query Match          95.4%; Score 556; DB 3; Length 355;
Best Local Similarity 95.2%; Pred. No. 2.5e-59;
Matches 100; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

Qy 1 MQDWLTFQKKHLNTRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIASKNVLT 60
Db 251 MSDWLTQKKHITNTRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIASKNVLT 310

Qy 61 TSEFYLSDCNVTSPCKYKLLKSTNTFCVTCENQAPVHFVGVGHC 105
Db 311 TSEFYLSDCNVTSPCKYKLLKSTNTFCVTCENQAPVHFVGVGSC 355

Search completed: October 19, 2004, 09:24:43
Job time : 22.8589 secs
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GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: October 19, 2004, 09:04:37 ; Search time 69.8325 Seconds  
(without alignments)  
486.141 Million cell updates/sec

Title: US-09-622-613C-6

Perfect score: 583

Sequence:

1 MQDWLTFQKKHLNTRVDVC.....TFQVTCNQAPVHFVGVGHC 105

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1360919 seqs, 323318874 residues

Total number of hits satisfying chosen parameters: 1360919

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications AA:\*

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- 2: /cgn2\_6/ptodata/1/pubpaa/PCT\_NEW\_PUB.pep.\*
- 3: /cgn2\_6/ptodata/1/pubpaa/US06\_NEW\_PUB.pep.\*
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- 16: /cgn2\_6/ptodata/1/pubpaa/US10D\_PUBCOMB.pep.\*
- 17: /cgn2\_6/ptodata/1/pubpaa/US10\_NEW\_PUB.pep.\*
- 18: /cgn2\_6/ptodata/1/pubpaa/US60\_NEW\_PUB.pep.\*
- 19: /cgn2\_6/ptodata/1/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

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1	583	100.0	105	10	US-09-948-391A-6
2	583	100.0	105	10	US-09-961-400-6
3	580	99.5	111	10	US-09-961-400-9
4	578	99.1	104	10	US-09-961-400-2
5	578	99.1	105	10	US-09-948-391A-13
6	578	99.1	105	10	US-09-961-400-13
7	578	99.1	127	10	US-09-948-391A-28
8	578	99.1	127	10	US-09-961-400-28
9	573	98.3	104	10	US-09-948-391A-11
10	573	98.3	104	10	US-09-961-400-11
11	570	97.8	105	10	US-09-961-400-8
12	569	97.6	104	10	US-09-948-391A-2
13	569	97.6	104	10	US-09-948-391A-4
14	569	97.6	104	10	US-09-961-400-4

15	565	96.9	105	10	US-09-948-391A-8	Sequence 8, Appli
16	565	96.9	111	10	US-09-948-391A-9	Sequence 9, Appli
17	561	96.2	105	14	US-10-153-882-2	Sequence 2, Appli
18	556	95.4	104	16	US-10-331-910-9	Sequence 9, Appli
19	551	94.5	104	9	US-09-986-119-1	Sequence 1, Appli
20	551	94.5	104	10	US-09-918-887-1	Sequence 1, Appli
21	551	94.5	104	16	US-10-331-910-5	Sequence 5, Appli
22	548	94.0	104	15	US-10-461-713-53	Sequence 53, Appli
23	548	94.0	104	16	US-10-331-910-1	Sequence 1, Appli
24	445	76.3	83	9	US-09-986-119-3	Sequence 3, Appli
25	445	76.3	83	10	US-09-918-887-3	Sequence 3, Appli
26	286.5	49.1	111	10	US-09-961-400-17	Sequence 17, Appli
27	282.5	48.5	111	10	US-09-948-391A-21	Sequence 21, Appli
28	282.5	48.5	111	10	US-09-961-400-21	Sequence 21, Appli
29	282.5	48.5	117	10	US-09-948-391A-22	Sequence 22, Appli
30	282.5	48.5	117	10	US-09-961-400-22	Sequence 22, Appli
31	281.5	48.3	110	10	US-09-948-391A-15	Sequence 15, Appli
32	281.5	48.3	110	10	US-09-961-400-15	Sequence 15, Appli
33	281.5	48.3	111	10	US-09-948-391A-26	Sequence 26, Appli
34	281.5	48.3	111	10	US-09-961-400-26	Sequence 26, Appli
35	280.5	48.1	111	10	US-09-948-391A-17	Sequence 17, Appli
36	277.5	47.6	110	10	US-09-961-400-19	Sequence 19, Appli
37	276.5	47.4	110	10	US-09-948-391A-24	Sequence 24, Appli
38	276.5	47.4	110	10	US-09-961-400-24	Sequence 24, Appli
39	271.5	46.6	110	10	US-09-948-391A-19	Sequence 19, Appli
40	157.5	27.0	169	13	US-10-016-447-2	Sequence 2, Appli
41	149	25.6	119	15	US-10-074-978A-139	Sequence 139, App
42	149	25.6	119	15	US-10-016-248-89	Sequence 89, Appl
43	130.5	22.4	145	15	US-10-432-819-34	Sequence 34, Appl
44	128.5	22.0	124	13	US-10-016-447-5	Sequence 5, Appli
45	125	21.4	124	15	US-10-037-417-103	Sequence 103, App

#### ALIGNMENTS

#### RESULT 1

US-09-948-391A-6  
; Sequence 6, Application US/0948391A  
; Publication No. US20030027311A1  
; GENERAL INFORMATION:  
; APPLICANT: Rybak, Susanna M.  
; APPLICANT: Newton, Dianne L.  
; APPLICANT: The United States of America  
; APPLICANT: as represented by The Secretary of the  
; APPLICANT: Department of Health and Human Services  
; TITLE OF INVENTION: Recombinant Anti-Tumor RNase  
; FILE REFERENCE: 015280-343110US  
; CURRENT APPLICATION NUMBER: US/09/948,391A  
; PRIOR FILING DATE: 2002-05-10  
; PRIOR APPLICATION NUMBER: US 60/079,751  
; PRIOR FILING DATE: 1998-03-27  
; PRIOR APPLICATION NUMBER: WO PCT/US99/06641  
; PRIOR FILING DATE: 1999-03-26  
; PRIOR APPLICATION NUMBER: US 09/622,613  
; PRIOR FILING DATE: 2000-08-17  
; NUMBER OF SEQ ID NOS: 43  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 6  
; LENGTH: 105  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Rana pipiens  
; OTHER INFORMATION: ribonuclease with Met at position 1 (recombinant)  
; OTHER INFORMATION: Met(-1) RANPLS1)  
US-09-948-391A-6

Query Match 100.0%; Score 583; DB 10; Length 105;  
Best Local Similarity 100.0%; Pred. No. 4.8e-57;  
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY

1 MQDWLTFQKKHLNTRVDVCNNIMTNLFHCXDKNFIYSRPEPVKAICKGIASKNVL 60

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Db 1 QDWLTFQKKHLNTRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60
Qy 61 TSEFYLSDCNVTSRCPCKYKLLKSKSTNTFCVTCENQAPVHFVGVGHC 105
Db 61 TSEFYLSDCNVTSRCPCKYKLLKSKSTNTFCVTCENQAPVHFVGVGHC 105

RESULT 2
US-09-961-400-6
; Sequence 6, Application US/09961400
; Publication No. US20030124131A1
; GENERAL INFORMATION:
; APPLICANT: RYBAK, SUSANNA M.
; APPLICANT: GOLDENBERG, DAVID M.
; TITLE OF INVENTION: IMMUNOCONJUGATES OF TOXINS DIRECTED AGAINST MALIGNANT
; FILE REFERENCE: 018733/1059
; CURRENT APPLICATION NUMBER: US/09/961,400
; PRIOR FILING DATE: 2001-09-25
; PRIOR FILING DATE: 2000-08-17
; PRIOR APPLICATION NUMBER: PCT/US99/06641
; PRIOR FILING DATE: 1999-03-26
; PRIOR APPLICATION NUMBER: 60/079,751
; PRIOR FILING DATE: 1998-03-26
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 105
; TYPE: PRT
; ORGANISM: Rana pipiens
US-09-961-400-6

Query Match 100.0%; Score 583; DB 10; Length 105;
Best Local Similarity 100.0%; Pred. No. 4.8e-57;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 QDWLTFQKKHLNTRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60
Db 1 QDWLTFQKKHLNTRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60

Qy 61 TSEFYLSDCNVTSRCPCKYKLLKSKSTNTFCVTCENQAPVHFVGVGHC 105
Db 61 TSEFYLSDCNVTSRCPCKYKLLKSKSTNTFCVTCENQAPVHFVGVGHC 105

RESULT 3
US-09-961-400-9
; Sequence 9, Application US/09961400
; Publication No. US20030124131A1
; GENERAL INFORMATION:
; APPLICANT: RYBAK, SUSANNA M.
; APPLICANT: GOLDENBERG, DAVID M.
; TITLE OF INVENTION: IMMUNOCONJUGATES OF TOXINS DIRECTED AGAINST MALIGNANT
; FILE REFERENCE: 018733/1059
; CURRENT APPLICATION NUMBER: US/09/961,400
; PRIOR FILING DATE: 2001-09-25
; PRIOR FILING DATE: 2000-08-17
; PRIOR APPLICATION NUMBER: PCT/US99/06641
; PRIOR FILING DATE: 1999-03-26
; PRIOR APPLICATION NUMBER: 60/079,751
; PRIOR FILING DATE: 1998-03-26
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 9
; LENGTH: 111
; TYPE: PRT
; ORGANISM: Rana pipiens
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US-09-961-400-9
Query Match 99.5%; Score 580; DB 10; Length 111;
Best Local Similarity 99.0%; Pred. No. 1.1e-56;
Matches 104; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

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Db 7 QDWLTFQKKHLNTRDVCNNILSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 66

Qy 61 TSEFYLSDCNVTSRCPCKYKLLKSKSTNTFCVTCENQAPVHFVGVGHC 105
Db 67 TSEFYLSDCNVTSRCPCKYKLLKSKSTNTFCVTCENQAPVHFVGVGHC 111

RESULT 4
US-09-961-400-2
; Sequence 2, Application US/09961400
; Publication No. US20030124131A1
; GENERAL INFORMATION:
; APPLICANT: RYBAK, SUSANNA M.
; APPLICANT: GOLDENBERG, DAVID M.
; TITLE OF INVENTION: IMMUNOCONJUGATES OF TOXINS DIRECTED AGAINST MALIGNANT
; FILE REFERENCE: 018733/1059
; CURRENT APPLICATION NUMBER: US/09/961,400
; PRIOR FILING DATE: 2001-09-25
; PRIOR FILING DATE: 2000-08-17
; PRIOR APPLICATION NUMBER: PCT/US99/06641
; PRIOR FILING DATE: 1999-03-26
; PRIOR APPLICATION NUMBER: 60/079,751
; PRIOR FILING DATE: 1998-03-26
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 104
; TYPE: PRT
; ORGANISM: Rana pipiens
US-09-961-400-2

Query Match 99.1%; Score 578; DB 10; Length 104;
Best Local Similarity 100.0%; Pred. No. 1.7e-56;
Matches 104; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 QDWLTFQKKHLNTRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 61
Db 1 QDWLTFQKKHLNTRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60

Qy 62 SEFYLSDCNVTSRCPCKYKLLKSKSTNTFCVTCENQAPVHFVGVGHC 105
Db 61 SEFYLSDCNVTSRCPCKYKLLKSKSTNTFCVTCENQAPVHFVGVGHC 104

RESULT 5
US-09-948-391A-13
; Sequence 13, Application US/09948391A
; Publication No. US20030027311A1
; GENERAL INFORMATION:
; APPLICANT: RYBAK, SUSANNA M.
; APPLICANT: Newton, Dianne L.
; APPLICANT: as represented by The Secretary of the
; APPLICANT: Department of Health and Human Services
; TITLE OF INVENTION: Recombinant Anti-Tumor RNase
; FILE REFERENCE: 015280-343110US
; CURRENT APPLICATION NUMBER: US/09/948,391A
; CURRENT FILING DATE: 2002-05-10
; PRIOR APPLICATION NUMBER: US 60/079,751
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: WO PCT/US99/06641
; PRIOR FILING DATE: 1999-03-26
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; PRIOR APPLICATION NUMBER: US 09/622,613
; PRIOR FILING DATE: 2000-08-17
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 13
; LENGTH: 105
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Rana pipiens
; OTHER INFORMATION: ribonuclease with Met at position 1 and Gln2Ser
; OTHER INFORMATION: substitution (recombinant Met(-1) RapLr1 Q1S)
US-09-948-391A-13

Query Match
Best Local Similarity 99.1%; Score 578; DB 10; Length 105;
Matches 104; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MQDWLTFQKKHLNTRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60
Db 1 MSDWLTFOKKHLNTRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60

QY 61 TSEFYLSDCNVTSRCPCKYKLLKSTNTFCVTCENQAPVHFVGVGHC 105
Db 61 TSEFYLSDCNVTSRCPCKYKLLKSTNTFCVTCENQAPVHFVGVGHC 105

RESULT 6
US-09-961-400-13
; Sequence 13, Application US/09961400
; Publication No. US20030124131A1
; GENERAL INFORMATION:
; APPLICANT: RYBAK, SUSANNA M.
; APPLICANT: GOLDENBERG, DAVID M.
; APPLICANT: NEWTON, DIANNE L.
; TITLE OF INVENTION: IMMUNOCONJUGATES OF TOXINS DIRECTED AGAINST MALIGNANT
; TITLE OF INVENTION: CELLS
; FILE REFERENCE: 018733/1059
; CURRENT APPLICATION NUMBER: US/09/961,400
; PRIOR FILING DATE: 2001-09-25
; PRIOR APPLICATION NUMBER: 09/622,613
; PRIOR FILING DATE: 2000-08-17
; PRIOR APPLICATION NUMBER: PCT/US99/06641
; PRIOR FILING DATE: 1999-03-26
; PRIOR APPLICATION NUMBER: 60/079,751
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 13
; LENGTH: 105
; TYPE: PRT
; ORGANISM: Rana pipiens
US-09-961-400-13

Query Match
Best Local Similarity 99.1%; Score 578; DB 10; Length 105;
Matches 104; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MQDWLTFQKKHLNTRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60
Db 1 MSDWLTFOKKHLNTRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60

QY 61 TSEFYLSDCNVTSRCPCKYKLLKSTNTFCVTCENQAPVHFVGVGHC 105
Db 61 TSEFYLSDCNVTSRCPCKYKLLKSTNTFCVTCENQAPVHFVGVGHC 105

RESULT 7
US-09-948-391A-28
; Sequence 28, Application US/09948391A
; Publication No. US20030027311A1
; GENERAL INFORMATION:
; APPLICANT: Rybak, Susanna M.
; APPLICANT: Newton, Dianne L.
; APPLICANT: Goldenberg, David M.
; APPLICANT: Rybak, Susanna M.
; APPLICANT: Goldenberg, David M.
; APPLICANT: Newton, Dianne L.
; TITLE OF INVENTION: IMMUNOCONJUGATES OF TOXINS DIRECTED AGAINST MALIGNANT
; TITLE OF INVENTION: CELLS
; FILE REFERENCE: 018733/1059
; CURRENT APPLICATION NUMBER: US/09/961,400
; PRIOR FILING DATE: 2001-09-25
; PRIOR APPLICATION NUMBER: 09/622,613
; PRIOR FILING DATE: 2000-08-17
; PRIOR APPLICATION NUMBER: PCT/US99/06641
; PRIOR FILING DATE: 1999-03-26
; PRIOR APPLICATION NUMBER: 60/079,751
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 13
; LENGTH: 105
; TYPE: PRT
; ORGANISM: Rana pipiens
US-09-961-400-13

Query Match
Best Local Similarity 99.1%; Score 578; DB 10; Length 127;
Matches 104; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 QDWLTFQKKHLNTRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 61
Db 24 QDWLTFQKKHLNTRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 83

QY 62 SEFYLSDCNVTSRCPCKYKLLKSTNTFCVTCENQAPVHFVGVGHC 105
Db 84 SEFYLSDCNVTSRCPCKYKLLKSTNTFCVTCENQAPVHFVGVGHC 127

RESULT 8
US-09-961-400-28
; Sequence 28, Application US/09961400
; Publication No. US20030124131A1
; GENERAL INFORMATION:
; APPLICANT: RYBAK, SUSANNA M.
; APPLICANT: GOLDENBERG, DAVID M.
; APPLICANT: NEWTON, DIANNE L.
; TITLE OF INVENTION: IMMUNOCONJUGATES OF TOXINS DIRECTED AGAINST MALIGNANT
; TITLE OF INVENTION: CELLS
; FILE REFERENCE: 018733/1059
; CURRENT APPLICATION NUMBER: US/09/961,400
; PRIOR FILING DATE: 2001-09-25
; PRIOR APPLICATION NUMBER: 09/622,613
; PRIOR FILING DATE: 2000-08-17
; PRIOR APPLICATION NUMBER: PCT/US99/06641
; PRIOR FILING DATE: 1999-03-26
; PRIOR APPLICATION NUMBER: 60/079,751
; PRIOR FILING DATE: 1998-03-26
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 28
; LENGTH: 127
; TYPE: PRT
; ORGANISM: Rana pipiens
US-09-961-400-28

Query Match
Best Local Similarity 99.1%; Score 578; DB 10; Length 127;
Matches 104; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 QDWLTFQKKHLNTRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 61
Db 24 QDWLTFQKKHLNTRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 83
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Qy 62 SEFYLSDCNVTSRPCKYKLLKSTNTFCVTCENQAPVHFVGVGHC 105  
Db 84 SEFYLSDCNVTSRPCKYKLLKSTNTFCVTCENQAPVHFVGVGHC 127

## RESULT 9

US-09-948-391A-11  
; Sequence 11, Application US/09948391A  
; Publication No. US20030027311A1  
; GENERAL INFORMATION:  
; APPLICANT: Rybak, Susanna M.  
; APPLICANT: Newton, Dianne L.  
; APPLICANT: The United States of America  
; APPLICANT: as represented by The Secretary of the  
; APPLICANT: Department of Health and Human Services  
; TITLE OF INVENTION: Recombinant Anti-Tumor RNase  
; FILE REFERENCE: 015280-343110US  
; CURRENT APPLICATION NUMBER: US/09/948,391A  
; CURRENT FILING DATE: 2002-05-10  
; PRIOR APPLICATION NUMBER: US 60/079,751  
; PRIOR FILING DATE: 1998-03-27  
; PRIOR APPLICATION NUMBER: WO PCT/US99/06641  
; PRIOR FILING DATE: 1999-03-26  
; PRIOR APPLICATION NUMBER: US 09/622,613  
; PRIOR FILING DATE: 2000-08-17  
; NUMBER OF SEQ ID NOS: 43  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 11  
; LENGTH: 104  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence:Rana pipiens  
; OTHER INFORMATION: ribonuclease with Gln1Ser substitution  
; OTHER INFORMATION: (recombinant RapLr1 Q1S)  
US-09-948-391A-11

Query Match 98.3%; Score 573; DB 10; Length 104;  
Best Local Similarity 100.0%; Pred. No. 6.2e-56; Indels 0; Gaps 0;  
Matches 103; Conservative 0; Mismatches 0;

Qy 3 DMLTFQKKHLTNTRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLTTS 62  
Db 2 DMLTFQKKHLTNTRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLTTS 61  
Qy 63 EFYLSDCNVTSRPCKYKLLKSTNTFCVTCENQAPVHFVGVGHC 105  
Db 62 EFYLSDCNVTSRPCKYKLLKSTNTFCVTCENQAPVHFVGVGHC 104

## RESULT 10

US-09-961-400-11  
; Sequence 11, Application US/09961400  
; Publication No. US20030124131A1  
; GENERAL INFORMATION:  
; APPLICANT: RYBAK, SUSANNA M.  
; APPLICANT: GOLDENBERG, DAVID M.  
; APPLICANT: NEWTON, DIANNE L.  
; TITLE OF INVENTION: IMMUNOCONJUGATES OF TOXINS DIRECTED AGAINST MALIGNANT  
; TITLE OF INVENTION: CELLS  
; FILE REFERENCE: 018733/1059  
; CURRENT APPLICATION NUMBER: US/09/961,400  
; CURRENT FILING DATE: 2001-09-25  
; PRIOR APPLICATION NUMBER: 09/622,613  
; PRIOR FILING DATE: 2000-08-17  
; PRIOR APPLICATION NUMBER: PCT/US99/06641  
; PRIOR FILING DATE: 1999-03-26  
; PRIOR APPLICATION NUMBER: 60/079,751  
; PRIOR FILING DATE: 1998-03-26  
; NUMBER OF SEQ ID NOS: 43  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 11  
; LENGTH: 104

; TYPE: PRT  
; ORGANISM: Rana pipiens  
US-09-961-400-11

Query Match 98.3%; Score 573; DB 10; Length 104;  
Best Local Similarity 100.0%; Pred. No. 6.2e-56; Indels 0; Gaps 0;  
Matches 103; Conservative 0; Mismatches 0;

Qy 3 DMLTFQKKHLTNTRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLTTS 62  
Db 2 DMLTFQKKHLTNTRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLTTS 61  
Qy 63 EFYLSDCNVTSRPCKYKLLKSTNTFCVTCENQAPVHFVGVGHC 105  
Db 62 EFYLSDCNVTSRPCKYKLLKSTNTFCVTCENQAPVHFVGVGHC 104

## RESULT 11

US-09-961-400-8  
; Sequence 8, Application US/09961400  
; Publication No. US20030124131A1  
; GENERAL INFORMATION:  
; APPLICANT: RYBAK, SUSANNA M.  
; APPLICANT: GOLDENBERG, DAVID M.  
; APPLICANT: NEWTON, DIANNE L.  
; TITLE OF INVENTION: IMMUNOCONJUGATES OF TOXINS DIRECTED AGAINST MALIGNANT  
; TITLE OF INVENTION: CELLS  
; FILE REFERENCE: 018733/1059  
; CURRENT APPLICATION NUMBER: US/09/961,400  
; CURRENT FILING DATE: 2001-09-25  
; PRIOR APPLICATION NUMBER: 09/622,613  
; PRIOR FILING DATE: 2000-08-17  
; PRIOR APPLICATION NUMBER: PCT/US99/06641  
; PRIOR FILING DATE: 1999-03-26  
; PRIOR APPLICATION NUMBER: 60/079,751  
; PRIOR FILING DATE: 1998-03-26  
; NUMBER OF SEQ ID NOS: 43  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 8  
; LENGTH: 105  
; TYPE: PRT  
; ORGANISM: Rana pipiens  
US-09-961-400-8

Query Match 97.8%; Score 570; DB 10; Length 105;  
Best Local Similarity 97.1%; Pred. No. 1.3e-55; Indels 2; Gaps 0;  
Matches 102; Conservative 1; Mismatches 2;

Qy 1 MODWLTFFQKKHLTNTRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60  
Db 1 MODWLTFFQKKHLTNTRDVCNNILSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60

Qy 61 TSEFYLSDCNVTSRPCKYKLLKSTNTFCVTCENQAPVHFVGVGHC 105

Db 61 TSEFYLSDCNVTSRPCKYKLLKSTNTFCVTCENQAPVHFVGVGHC 105

## RESULT 12

US-09-948-391A-2  
; Sequence 2, Application US/09948391A  
; Publication No. US20030027311A1  
; GENERAL INFORMATION:  
; APPLICANT: Rybak, Susanna M.  
; APPLICANT: Newton, Dianne L.  
; APPLICANT: The United States of America  
; APPLICANT: as represented by The Secretary of the  
; APPLICANT: Department of Health and Human Services  
; TITLE OF INVENTION: Recombinant Anti-Tumor RNase  
; FILE REFERENCE: 015280-343110US  
; CURRENT APPLICATION NUMBER: US/09/948,391A  
; CURRENT FILING DATE: 2002-05-10  
; PRIOR APPLICATION NUMBER: US 60/079,751  
; PRIOR FILING DATE: 1998-03-27



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; PRIOR APPLICATION NUMBER: WO PCT/US99/06641
; PRIOR FILING DATE: 1999-03-26
; PRIOR APPLICATION NUMBER: US 09/622,613
; PRIOR FILING DATE: 2000-08-17
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 104
; TYPE: PRT
; ORGANISM: Rana pipiens
; FEATURE:
; OTHER INFORMATION: ribonuclease (RaPLR1)
US-09-948-391A-2

Query Match          97.6%; Score 569; DB 10; Length 104;
Best Local Similarity 99.0%; Pred. No. 1.7e-55;
Matches 103; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 QDWLTFQKKHLNTRDVCNNIMSTNLFHCKDKNTFYSRPEPVKAICKGIIASKNVLT 61
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Db 1 QDWLTFQKKHLNTRDVCNNIMSTNLFHCKDKNTFYSRPEPVKAICKGIIASKNVLT 60
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QY 62 SEFYLSDCNVTSPCKYKLLKSTNTFCVTCENQAPVHFVGVC 105
   |||||
Db 61 SEFYLSDCNVTSPCKYKLLKSTNTFCVTCENQAPVHFVGVC 104
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RESULT 13
US-09-948-391A-4
; Sequence 4, Application US/09948391A
; Publication No. US20030027311A1
; GENERAL INFORMATION:
; APPLICANT: Rybak, Susanna M.
; APPLICANT: Newton, Dianne L.
; APPLICANT: The United States of America
; APPLICANT: as represented by The Secretary of the
; APPLICANT: Department of Health and Human Services
; TITLE OF INVENTION: Recombinant Anti-Tumor RNase
; FILE REFERENCE: 015280-343110US
; CURRENT APPLICATION NUMBER: US/09/948,391A
; CURRENT FILING DATE: 2002-05-10
; PRIOR APPLICATION NUMBER: US 60/079,751
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: WO PCT/US99/06641
; PRIOR FILING DATE: 1999-03-26
; PRIOR APPLICATION NUMBER: US 09/622,613
; PRIOR FILING DATE: 2000-08-17
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 104
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:Rana pipiens
; OTHER INFORMATION: ribonuclease with Met23Leu substitution
; OTHER INFORMATION: (recombinant RaPLR1 Met23Leu)
US-09-948-391A-4

Query Match          97.6%; Score 569; DB 10; Length 104;
Best Local Similarity 99.1%; Pred. No. 1.7e-55;
Matches 102; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 QDWLTFQKKHLNTRDVCNNIMSTNLFHCKDKNTFYSRPEPVKAICKGIIASKNVLT 61
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Db 1 QDWLTFQKKHLNTRDVCNNIMSTNLFHCKDKNTFYSRPEPVKAICKGIIASKNVLT 60
   |||||

QY 62 SEFYLSDCNVTSPCKYKLLKSTNTFCVTCENQAPVHFVGVC 105
   |||||
Db 61 SEFYLSDCNVTSPCKYKLLKSTNTFCVTCENQAPVHFVGVC 104
   |||||

RESULT 14
US-09-948-391A-8
; Sequence 8, Application US/09948391A
; Publication No. US20030027311A1
; GENERAL INFORMATION:
; APPLICANT: Rybak, Susanna M.
; APPLICANT: Newton, Dianne L.
; APPLICANT: The United States of America
; APPLICANT: as represented by The Secretary of the
; APPLICANT: Department of Health and Human Services
; TITLE OF INVENTION: Recombinant Anti-Tumor RNase
; FILE REFERENCE: 015280-343110US
; CURRENT APPLICATION NUMBER: US/09/948,391A
; CURRENT FILING DATE: 2002-05-10
; PRIOR APPLICATION NUMBER: US 60/079,751
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: WO PCT/US99/06641
; PRIOR FILING DATE: 1999-03-26
; PRIOR APPLICATION NUMBER: US 09/622,613
; PRIOR FILING DATE: 2000-08-17
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 8
; LENGTH: 105
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:Rana pipiens
; OTHER INFORMATION: ribonuclease with Met at position 1 and Met24Leu
; OTHER INFORMATION: substitution (recombinant Met(-1) RaPLR1 Met23Leu)
US-09-948-391A-8

Query Match          96.9%; Score 565; DB 10; Length 105;
Best Local Similarity 97.1%; Pred. No. 4.8e-55;
Matches 102; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 QDWLTFQKKHLNTRDVCNNIMSTNLFHCKDKNTFYSRPEPVKAICKGIIASKNVLT 61
   |||||
Db 1 QDWLTFQKKHLNTRDVCNNIMSTNLFHCKDKNTFYSRPEPVKAICKGIIASKNVLT 60
   |||||

QY 62 SEFYLSDCNVTSPCKYKLLKSTNTFCVTCENQAPVHFVGVC 105
   |||||
Db 61 SEFYLSDCNVTSPCKYKLLKSTNTFCVTCENQAPVHFVGVC 104
   |||||

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US-09-961-400-4
; Sequence 4, Application US/09961400
; Publication No. US20030124131A1
; GENERAL INFORMATION:
; APPLICANT: RYBAK, SUSANNA M.
; APPLICANT: GOLDENBERG, DAVID M.
; APPLICANT: NEWTON, DIANNE L.
; TITLE OF INVENTION: IMMUNOCONJUGATES OF TOXINS DIRECTED AGAINST MALIGNANT
; FILE REFERENCE: 018733/1059
; CURRENT APPLICATION NUMBER: US/09/961,400
; CURRENT FILING DATE: 2001-09-25
; PRIOR APPLICATION NUMBER: 09/622,613
; PRIOR FILING DATE: 2000-08-17
; PRIOR APPLICATION NUMBER: PCT/US99/06641
; PRIOR FILING DATE: 1999-03-26
; PRIOR APPLICATION NUMBER: 60/079,751
; PRIOR FILING DATE: 1998-03-26
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 104
; TYPE: PRT
; ORGANISM: Rana pipiens
US-09-961-400-4

Query Match          97.6%; Score 569; DB 10; Length 104;
Best Local Similarity 98.1%; Pred. No. 1.7e-55;
Matches 102; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 QDWLTFQKKHLNTRDVCNNIMSTNLFHCKDKNTFYSRPEPVKAICKGIIASKNVLT 61
   |||||
Db 1 QDWLTFQKKHLNTRDVCNNILSTNLFHCKDKNTFYSRPEPVKAICKGIIASKNVLT 60
   |||||

QY 62 SEFYLSDCNVTSPCKYKLLKSTNTFCVTCENQAPVHFVGVC 105
   |||||
Db 61 SEFYLSDCNVTSPCKYKLLKSTNTFCVTCENQAPVHFVGVC 104
   |||||

RESULT 15
US-09-948-391A-8
; Sequence 8, Application US/09948391A
; Publication No. US20030027311A1
; GENERAL INFORMATION:
; APPLICANT: Rybak, Susanna M.
; APPLICANT: Newton, Dianne L.
; APPLICANT: The United States of America
; APPLICANT: as represented by The Secretary of the
; APPLICANT: Department of Health and Human Services
; TITLE OF INVENTION: Recombinant Anti-Tumor RNase
; FILE REFERENCE: 015280-343110US
; CURRENT APPLICATION NUMBER: US/09/948,391A
; CURRENT FILING DATE: 2002-05-10
; PRIOR APPLICATION NUMBER: US 60/079,751
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: WO PCT/US99/06641
; PRIOR FILING DATE: 1999-03-26
; PRIOR APPLICATION NUMBER: US 09/622,613
; PRIOR FILING DATE: 2000-08-17
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 8
; LENGTH: 105
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:Rana pipiens
; OTHER INFORMATION: ribonuclease with Met at position 1 and Met24Leu
; OTHER INFORMATION: substitution (recombinant Met(-1) RaPLR1 Met23Leu)
US-09-948-391A-8

Query Match          96.9%; Score 565; DB 10; Length 105;
Best Local Similarity 97.1%; Pred. No. 4.8e-55;
Matches 102; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

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Tue Oct 19 09:25:55 2004

us-09-622-613c-6.rapb

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Db	1	MODWLTFOKKHL/TNTRDVEDCNNILSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT	60							
Qy	61	TSEFVLSDCNVTSPCKYKXKSTNTFCVTCENQAPVHFVGVC	105							
Db	61	TFEFVLSDCNVTSPCKYKXKSTITFCVTCENQAPVHFVGVC	105							

Search completed: October 19, 2004, 09:23:06  
Job time : 71.0825 secs

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: October 19, 2004, 09:04:37 ; Search time 22.8589 Seconds  
(without alignments)  
304.626 Million cell updates/sec

Title: US-09-622-613C-8

Perfect score: 580

Sequence: 1 MQDWLTFQKXHLNTRDVDC.....TFCVTCENQAPVHFVGVC 105

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 478139 segs, 66318000 residues

Total number of hits satisfying chosen parameters: 478139

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database :

Issued Patents AA:\*

- 1: /cgn2\_6/ptodata/1/iaa/5A COMB.pep:\*
- 2: /cgn2\_6/ptodata/1/iaa/5B COMB.pep:\*
- 3: /cgn2\_6/ptodata/1/iaa/6A COMB.pep:\*
- 4: /cgn2\_6/ptodata/1/iaa/6B COMB.pep:\*
- 5: /cgn2\_6/ptodata/1/iaa/6C COMB.pep:\*
- 6: /cgn2\_6/ptodata/1/iaa/PTCUS COMB.pep:\*
- 7: /cgn2\_6/ptodata/1/iaa/backfiles1.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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2	546	94.1	105	3	US-08-875-811-39
3	546	94.1	355	3	US-08-875-811-41
4	546	94.1	358	3	US-08-875-811-51
5	544	93.8	104	3	US-09-394-268-1
6	544	93.8	104	4	US-09-687-748-1
7	544	93.8	104	4	US-08-626-288-1
8	544	93.8	104	4	US-09-095-429-1
9	544	93.8	112	3	US-08-875-811-32
10	544	93.8	129	3	US-08-875-811-63
11	544	93.8	251	3	US-08-875-811-59
12	544	93.8	254	3	US-08-875-811-61
13	544	93.8	355	3	US-08-875-811-49
14	544	93.8	355	3	US-08-875-811-57
15	544	93.8	355	3	US-08-875-811-64
16	544	93.8	366	3	US-08-875-811-55
17	544	93.8	379	3	US-08-875-811-43
18	541	93.3	104	1	US-08-283-971-1
19	541	93.3	104	1	US-07-921-619-1
20	541	93.3	104	1	US-08-467-955-1
21	541	93.3	104	2	US-08-891-848-13
22	541	93.3	104	3	US-09-394-268-2
23	541	93.3	104	4	US-09-687-748-2
24	541	93.3	104	4	US-08-626-288-2
25	541	93.3	104	4	US-09-095-429-2
26	539	92.9	104	3	US-08-875-811-1
27	539	92.9	104	3	US-09-071-672-1

Sequence 1, Appli  
Sequence 26, Appli  
Sequence 28, Appli  
Sequence 30, Appli  
Sequence 24, Appli  
Sequence 45, Appli  
Sequence 53, Appli  
Sequence 20, Appli  
Sequence 47, Appli  
Sequence 22, Appli  
Sequence 2, Appli  
Sequence 3, Appli  
Sequence 3, Appli  
Sequence 12, Appli  
Sequence 8, Appli  
Sequence 4, Appli  
Sequence 2, Appli  
Sequence 1, Appli

104 4 US-09-986-119-1  
105 3 US-08-875-811-26  
106 3 US-08-875-811-28  
107 3 US-08-875-811-30  
105 3 US-08-875-811-24  
358 3 US-08-875-811-45  
365 3 US-08-875-811-53  
107 3 US-08-875-811-20  
360 3 US-08-875-811-47  
111 3 US-08-875-811-22  
83 3 US-08-875-811-2  
83 3 US-09-071-672-3  
83 3 US-09-986-119-3  
111 2 US-08-891-848-12  
111 3 US-08-875-811-8  
114 3 US-09-223-118-4  
114 3 US-09-223-118-2  
114 3 US-09-223-118-1

#### ALIGNMENTS

#### RESULT 1

US-08-467-955-2  
; Sequence 2, Application US/08467955  
; Patent No. 5728805  
; GENERAL INFORMATION:  
; APPLICANT: Ardelt Ph.D. Wojciech J.  
; TITLE OF INVENTION: PHARMACEUTICALS AND METHOD FOR MAKING THEM  
; NUMBER OF SEQUENCES: 2  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Mark H. Jay, P.A.  
; STREET: P.O. Box E  
; CITY: Short Hills  
; STATE: New Jersey  
; COUNTRY: USA  
; ZIP: 07078-0383  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.24  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/467,955  
; FILING DATE:  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/178,118  
; FILING DATE: 06-APR-1988  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/436,141  
; FILING DATE: 13-NOV-1989  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/814,332  
; FILING DATE: 03-FEB-1992  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/283,970  
; FILING DATE: 01-AUG-1994  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Jay, Mark H.  
; REGISTRATION NUMBER: 27507  
; REFERENCE/DOCKET NUMBER: 5007 US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 201-912-9066  
; TELEFAX: 201-912-0442  
; TELEX: No. 5728805 Applicable  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 104 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear

MOLECULE TYPE: protein  
HYPOTHETICAL: N  
ANTI-SENSE: N  
FRAGMENT TYPE: N-terminal  
ORIGINAL SOURCE: Rana pipiens  
DEVELOPMENTAL STAGE: Oocyte  
US-08-467-955-2

Query Match 94.1%; Score 546; DB 1; Length 104;  
Best Local Similarity 94.2%; Pred. No. 1.3e-59;  
Matches 98; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 2 QDWLTFOKKHLNTRDVCNNILSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 61  
DB 1 EDWLTFOKKHLNTRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60  
QY 62 SEFYLSDCNVTSPCKYKLLKSTITFCVTCENQAPVHFVGHC 105  
DB 61 SEFYLSDCNVTSPCKYKLLKSTNKFCVTCENQAPVHFVGHC 104

RESULT 2  
US-08-875-811-39  
Sequence 39, Application US/08875811  
Patent No. 6045793  
GENERAL INFORMATION:  
APPLICANT: Rybak, Susanna M.  
APPLICANT: Newton, Dianne L.  
APPLICANT: Boque, Luis  
APPLICANT: Wlodawer, Alexander  
TITLE OF INVENTION: Recombinant Ribonuclease Proteins  
NUMBER OF SEQUENCES: 64  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Townsend and Townsend and Crew LLP  
STREET: Two Embarcadero Center, Eighth Floor  
CITY: San Francisco  
STATE: California  
COUNTRY: USA  
ZIP: 94111-3834

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/875,811  
FILING DATE: 19-FEB-1998  
CLASSIFICATION: 435  
PRIOR APPLICATION NUMBER: WO PCT/US97/02588  
FILING DATE: 19-FEB-1997  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 60/011,800  
FILING DATE: 21-FEB-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Paris, Susan K.  
REGISTRATION NUMBER: 41,739  
REFERENCE/DOCKET NUMBER: 015280-244100US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (415) 576-0200  
TELEFAX: (415) 576-0300  
INFORMATION FOR SEQ ID NO: 39:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 105 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein

US-08-875-811-39  
Query Match 94.1%; Score 546; DB 3; Length 105;  
Best Local Similarity 93.3%; Pred. No. 1.3e-59;  
Matches 98; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

QY 2 QDWLTFOKKHLNTRDVCNNILSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 61  
DB 1 EDWLTFOKKHLNTRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60  
QY 62 SEFYLSDCNVTSPCKYKLLKSTITFCVTCENQAPVHFVGHC 105  
DB 61 SEFYLSDCNVTSPCKYKLLKSTNKFCVTCENQAPVHFVGHC 104

RESULT 2  
US-08-875-811-39  
Sequence 39, Application US/08875811  
Patent No. 6045793  
GENERAL INFORMATION:  
APPLICANT: Rybak, Susanna M.  
APPLICANT: Newton, Dianne L.  
APPLICANT: Boque, Luis  
APPLICANT: Wlodawer, Alexander  
TITLE OF INVENTION: Recombinant Ribonuclease Proteins  
NUMBER OF SEQUENCES: 64  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Townsend and Townsend and Crew LLP  
STREET: Two Embarcadero Center, Eighth Floor  
CITY: San Francisco  
STATE: California  
COUNTRY: USA  
ZIP: 94111-3834

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/875,811  
FILING DATE: 19-FEB-1998  
CLASSIFICATION: 435  
PRIOR APPLICATION NUMBER: WO PCT/US97/02588  
FILING DATE: 19-FEB-1997  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 60/011,800  
FILING DATE: 21-FEB-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Paris, Susan K.  
REGISTRATION NUMBER: 41,739  
REFERENCE/DOCKET NUMBER: 015280-244100US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (415) 576-0200  
TELEFAX: (415) 576-0300  
INFORMATION FOR SEQ ID NO: 39:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 105 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein

US-08-875-811-39  
Query Match 94.1%; Score 546; DB 3; Length 105;  
Best Local Similarity 93.3%; Pred. No. 1.3e-59;  
Matches 98; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

QY 2 QDWLTFOKKHLNTRDVCNNILSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 61  
DB 1 EDWLTFOKKHLNTRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60  
QY 62 SEFYLSDCNVTSPCKYKLLKSTITFCVTCENQAPVHFVGHC 105  
DB 61 SEFYLSDCNVTSPCKYKLLKSTNKFCVTCENQAPVHFVGHC 104

QY 1 MODWLTFOKKHLNTRDVCNNILSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60  
DB 1 MEDWLTFOKKHLNTRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60  
QY 61 TSEFYLSDCNVTSPCKYKLLKSTITFCVTCENQAPVHFVGHC 105  
DB 61 TSEFYLSDCNVTSPCKYKLLKSTNKFCVTCENQAPVHFVGHC 105

RESULT 3  
US-08-875-811-41  
Sequence 41, Application US/08875811  
Patent No. 6045793  
GENERAL INFORMATION:  
APPLICANT: Rybak, Susanna M.  
APPLICANT: Newton, Dianne L.  
APPLICANT: Boque, Luis  
APPLICANT: Wlodawer, Alexander  
TITLE OF INVENTION: Recombinant Ribonuclease Proteins  
NUMBER OF SEQUENCES: 64  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Townsend and Townsend and Crew LLP  
STREET: Two Embarcadero Center, Eighth Floor  
CITY: San Francisco  
STATE: California  
COUNTRY: USA  
ZIP: 94111-3834

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/875,811  
FILING DATE: 19-FEB-1998  
CLASSIFICATION: 435  
PRIOR APPLICATION NUMBER: WO PCT/US97/02588  
FILING DATE: 19-FEB-1997  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 60/011,800  
FILING DATE: 21-FEB-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Paris, Susan K.  
REGISTRATION NUMBER: 41,739  
REFERENCE/DOCKET NUMBER: 015280-244100US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (415) 576-0200  
TELEFAX: (415) 576-0300  
INFORMATION FOR SEQ ID NO: 41:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 355 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein

US-08-875-811-41  
Query Match 94.1%; Score 546; DB 3; Length 355;  
Best Local Similarity 93.3%; Pred. No. 6.6e-59;  
Matches 98; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

QY 1 MODWLTFOKKHLNTRDVCNNILSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60  
DB 251 MEDWLTFOKKHLNTRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 310  
QY 61 TSEFYLSDCNVTSPCKYKLLKSTITFCVTCENQAPVHFVGHC 105  
DB 311 TSEFYLSDCNVTSPCKYKLLKSTNKFCVTCENQAPVHFVGHC 355

RESULT 4  
US-08-875-811-51  
Sequence 51, Application US/08875811  
Patent No. 6045793  
GENERAL INFORMATION:  
APPLICANT: Rybak, Susanna M.  
APPLICANT: Newton, Dianne L.  
APPLICANT: Boque, Luis  
APPLICANT: Wlodawer, Alexander  
TITLE OF INVENTION: Recombinant Ribonuclease Proteins  
NUMBER OF SEQUENCES: 64  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Townsend and Townsend and Crew LLP  
STREET: Two Embarcadero Center, Eighth Floor  
CITY: San Francisco  
STATE: California  
COUNTRY: USA  
ZIP: 94111-3834

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/875,811  
FILING DATE: 19-FEB-1998  
CLASSIFICATION: 435  
PRIOR APPLICATION NUMBER: WO PCT/US97/02588  
FILING DATE: 19-FEB-1997  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 60/011,800  
FILING DATE: 21-FEB-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Paris, Susan K.  
REGISTRATION NUMBER: 41,739  
REFERENCE/DOCKET NUMBER: 015280-244100US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (415) 576-0200  
TELEFAX: (415) 576-0300  
INFORMATION FOR SEQ ID NO: 51:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 105 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein

US-08-875-811-51  
Query Match 94.1%; Score 546; DB 3; Length 355;  
Best Local Similarity 93.3%; Pred. No. 6.6e-59;  
Matches 98; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

QY 1 MODWLTFOKKHLNTRDVCNNILSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60  
DB 251 MEDWLTFOKKHLNTRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 310  
QY 61 TSEFYLSDCNVTSPCKYKLLKSTITFCVTCENQAPVHFVGHC 105  
DB 311 TSEFYLSDCNVTSPCKYKLLKSTNKFCVTCENQAPVHFVGHC 355

RESULT 4  
US-08-875-811-51  
Sequence 51, Application US/08875811  
Patent No. 6045793  
GENERAL INFORMATION:  
APPLICANT: Rybak, Susanna M.  
APPLICANT: Newton, Dianne L.  
APPLICANT: Boque, Luis  
APPLICANT: Wlodawer, Alexander  
TITLE OF INVENTION: Recombinant Ribonuclease Proteins  
NUMBER OF SEQUENCES: 64  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Townsend and Townsend and Crew LLP  
STREET: Two Embarcadero Center, Eighth Floor  
CITY: San Francisco  
STATE: California  
COUNTRY: USA  
ZIP: 94111-3834

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/875,811  
FILING DATE: 19-FEB-1998  
CLASSIFICATION: 435  
PRIOR APPLICATION NUMBER: WO PCT/US97/02588  
FILING DATE: 19-FEB-1997  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 60/011,800  
FILING DATE: 21-FEB-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Paris, Susan K.  
REGISTRATION NUMBER: 41,739  
REFERENCE/DOCKET NUMBER: 015280-244100US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (415) 576-0200  
TELEFAX: (415) 576-0300  
INFORMATION FOR SEQ ID NO: 51:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 105 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein

US-08-875-811-51  
Query Match 94.1%; Score 546; DB 3; Length 355;  
Best Local Similarity 93.3%; Pred. No. 6.6e-59;  
Matches 98; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

```

; Sequence 51, Application US/09875811
; Patent No. 6045793
; GENERAL INFORMATION:
; APPLICANT: Rybak, Susanna M.
; APPLICANT: Newton, Dianne L.
; APPLICANT: Beque, Lluís
; APPLICANT: Wldawer, Alexander
; TITLE OF INVENTION: Recombinant Ribonuclease Proteins
; NUMBER OF SEQUENCES: 64
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, Eighth Floor
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/875,811
; FILING DATE: 19-FEB-1998
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: WO PCT/US97/02588
; FILING DATE: 19-FEB-1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/011,800
; FILING DATE: 21-FEB-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Faris, Susan K.
; REGISTRATION NUMBER: 41,739
; REFERENCE/DOCKET NUMBER: 015280-244100US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 576-0200
; TELEFAX: (415) 576-0300
; INFORMATION FOR SEQ ID NO: 51:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 358 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-875-811-51

Query Match          94.1%; Score 546; DB 3; Length 358;
Best Local Similarity 93.3%; Pred. No. 6.7e-59;
Matches 98; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

QY 1 MQDWLTFQKHLNTRDVDCCNNILSTNLPHCKDKNTFIYSRPEFPVKAICKGIASKNVLT 60
Db 1 MBDWLTFQKHLNTRDVDCCNNIMSTNLPHCKDKNTFIYSRPEFPVKAICKGIASKNVLT 60
QY 61 TSEFYLSDCNVTSRPCKYKLKSKSTITFCVTCENQAPVHFVGVGHC 105
Db 61 TSEFYLSDCNVTSRPCKYKLKSKSTNFKCVTCENQAPVHFVGVGSC 105

RESULT 5
US-09-394-268-1
; Sequence 1, Application US/09394268
; Patent No. 6175003
; GENERAL INFORMATION:
; APPLICANT: Saxena, Shailendra K
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING RIBONUCLEASES AND METHODS OF
; TITLE OF INVENTION: MAKING THEM
; FILE REFERENCE: 5013
; CURRENT APPLICATION NUMBER: US/09/394,268
; CURRENT FILING DATE: 1999-09-10
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1

```

COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/626,288  
FILING DATE: No. 6649392 yet assigned  
CLASSIFICATION: 530  
ATTORNEY/AGENT INFORMATION:  
NAME: Ran, David B.  
REGISTRATION NUMBER: 38,589  
REFERENCE/DOCKET NUMBER: 15280-267  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (415) 543-9600  
TELEFAX: (415) 543-5043  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 104 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-626-288-1

Query Match 93.8%; Score 544; DB 4; Length 104;  
Best Local Similarity 94.2%; Pred. No. 2.3e-59;  
Matches 98; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 2 QDWLTFQKKHLLTNRDVCNNILSNLFHCKDKNTFIYSRPPVKAICKGIIASKNVLTT 61  
Db 1 QDWLTFQKKHLLTNRDVCNNILSNLFHCKDKNTFIYSRPPVKAICKGIIASKNVLTT 60

QY 62 SEFYLSDCNVTSRPCKYKLLKSTITFCVTCENQAPVHFVGVC 105  
Db 61 SEFYLSDCNVTSRPCKYKLLKSTITFCVTCENQAPVHFVGVC 104

RESULT 8  
US-09-095-429-1  
Sequence 1, Application US/09095429  
Patent No. 6649393  
GENERAL INFORMATION:  
APPLICANT: Youle, Richard  
APPLICANT: Vasandani, Veena  
APPLICANT: Wu, Yon-Neng  
APPLICANT: Boix, Ester  
APPLICANT: Ardelt, Wojciech  
TITLE OF INVENTION: A Mutant Form of Cytotoxic Protein Which  
TITLE OF INVENTION: Allows Production by Recombinant Methods  
NUMBER OF SEQUENCES: 3  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Townsend and Townsend and Crew  
STREET: One Market Plaza, Steuart Street Tower  
CITY: San Francisco  
STATE: California  
COUNTRY: USA  
ZIP: 94105-1492  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/095,429  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
PRIOR APPLICATION NUMBER: 08/626,288  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Ran, David B.  
REGISTRATION NUMBER: 38,589  
REFERENCE/DOCKET NUMBER: 15280-267  
TELECOMMUNICATION INFORMATION:

TELEPHONE: (415) 543-9600  
TELEFAX: (415) 543-5043  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 104 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-095-429-1

Query Match 93.8%; Score 544; DB 4; Length 104;  
Best Local Similarity 94.2%; Pred. No. 2.3e-59;  
Matches 98; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 2 QDWLTFQKKHLLTNRDVCNNILSNLFHCKDKNTFIYSRPPVKAICKGIIASKNVLTT 61  
Db 1 QDWLTFQKKHLLTNRDVCNNILSNLFHCKDKNTFIYSRPPVKAICKGIIASKNVLTT 60

QY 62 SEFYLSDCNVTSRPCKYKLLKSTITFCVTCENQAPVHFVGVC 105  
Db 61 SEFYLSDCNVTSRPCKYKLLKSTITFCVTCENQAPVHFVGVC 104

RESULT 9  
US-08-875-811-32  
Sequence 32, Application US/08875811  
Patent No. 6045793  
GENERAL INFORMATION:  
APPLICANT: Rybak, Susanna M.  
APPLICANT: Newton, Dianne L.  
APPLICANT: Boque, Lluís  
APPLICANT: Wlodawer, Alexander  
TITLE OF INVENTION: Recombinant Ribonuclease Proteins  
NUMBER OF SEQUENCES: 64  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Townsend and Townsend and Crew LLP  
STREET: Two Embarcadero Center, Eighth Floor  
CITY: San Francisco  
STATE: California  
COUNTRY: USA  
ZIP: 94111-3834  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/875,811  
FILING DATE: 19-FEB-1998  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
PRIOR APPLICATION NUMBER: WO PCT/US97/02588  
FILING DATE: 19-FEB-1997  
PRIOR APPLICATION DATA:  
PRIOR APPLICATION NUMBER: US 60/011,800  
FILING DATE: 21-FEB-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Paris, Susan K.  
REGISTRATION NUMBER: 41,739  
REFERENCE/DOCKET NUMBER: 015280-244100US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (415) 576-0200  
TELEFAX: (415) 576-0300  
INFORMATION FOR SEQ ID NO: 32:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 112 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-875-811-32

Query Match 93.8%; Score 544; DB 3; Length 112;

Best Local Similarity 93.3%; Pred. No. 2.5e-59;  
Matches 98; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

Qy 1 QDWLTFQKKHLNTRDVCNNILSTNLFHCKDKNTFIYSRPEPVKAICKGIASKNVLT 60  
Db 8 MSDWLTQKKHITNTRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIASKNVLT 67  
Qy 61 TSEFYLSDCNVTSRCKYKLLKSTITFCVTCENQAPVHFVGVGHC 105  
Db 68 TSEFYLSDCNVTSRCKYKLLKSTNKFCVTCENQAPVHFVGVGSC 112

## RESULT 10

US-08-875-811-63  
; Sequence 63, Application US/08875811  
; Patent No. 6045793  
; GENERAL INFORMATION:  
; APPLICANT: Rybak, Susanna M.  
; APPLICANT: Newton, Dianne L.  
; APPLICANT: Boque, Lluis  
; APPLICANT: Wlodawer, Alexander  
; TITLE OF INVENTION: Recombinant Ribonuclease Proteins  
; NUMBER OF SEQUENCES: 64  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Townsend and Townsend and Crew LLP  
; STREET: Two Embarcadero Center, Eighth Floor  
; CITY: San Francisco  
; STATE: California  
; COUNTRY: USA  
; ZIP: 94111-3834  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/875,811  
; FILING DATE: 19-FEB-1998  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: WO PCT/US97/02588  
; FILING DATE: 19-FEB-1997  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 60/011,800  
; FILING DATE: 21-FEB-1996  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Paris, Susan K.  
; REGISTRATION NUMBER: 41,739  
; REFERENCE/DOCKET NUMBER: 015280-244100US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (415) 576-0200  
; TELEFAX: (415) 576-0300  
; INFORMATION FOR SEQ ID NO: 63:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 129 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-08-875-811-63

Query Match 93.8%; Score 544; DB 3; Length 129;  
Best Local Similarity 94.2%; Pred. No. 3.1e-59;  
Matches 98; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Qy 2 QDWLTFQKKHLNTRDVCNNILSTNLFHCKDKNTFIYSRPEPVKAICKGIASKNVLT 61  
Db 26 QDWLTFQKKHITNTRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIASKNVLT 85  
Qy 62 SEFYLSDCNVTSRCKYKLLKSTITFCVTCENQAPVHFVGVGHC 105  
Db 86 SEFYLSDCNVTSRCKYKLLKSTNKFCVTCENQAPVHFVGVGSC 129

## RESULT 11

US-08-875-811-59  
; Sequence 59, Application US/08875811  
; Patent No. 6045793  
; GENERAL INFORMATION:  
; APPLICANT: Rybak, Susanna M.  
; APPLICANT: Newton, Dianne L.  
; APPLICANT: Boque, Lluis  
; APPLICANT: Wlodawer, Alexander  
; TITLE OF INVENTION: Recombinant Ribonuclease Proteins  
; NUMBER OF SEQUENCES: 64  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Townsend and Townsend and Crew LLP  
; STREET: Two Embarcadero Center, Eighth Floor  
; CITY: San Francisco  
; STATE: California  
; COUNTRY: USA  
; ZIP: 94111-3834  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/875,811  
; FILING DATE: 19-FEB-1998  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: WO PCT/US97/02588  
; FILING DATE: 19-FEB-1997  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 60/011,800  
; FILING DATE: 21-FEB-1996  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Paris, Susan K.  
; REGISTRATION NUMBER: 41,739  
; REFERENCE/DOCKET NUMBER: 015280-244100US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (415) 576-0200  
; TELEFAX: (415) 576-0300  
; INFORMATION FOR SEQ ID NO: 59:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 251 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-08-875-811-59

Query Match 93.8%; Score 544; DB 3; Length 251;  
Best Local Similarity 93.3%; Pred. No. 7.4e-59;  
Matches 98; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

Qy 1 QDWLTFQKKHLNTRDVCNNILSTNLFHCKDKNTFIYSRPEPVKAICKGIASKNVLT 60  
Db 147 MSDWLTQKKHITNTRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIASKNVLT 206  
Qy 61 TSEFYLSDCNVTSRCKYKLLKSTITFCVTCENQAPVHFVGVGHC 105  
Db 207 TSEFYLSDCNVTSRCKYKLLKSTNKFCVTCENQAPVHFVGVGSC 251

## RESULT 12

US-08-875-811-61  
; Sequence 61, Application US/08875811  
; Patent No. 6045793  
; GENERAL INFORMATION:  
; APPLICANT: Rybak, Susanna M.  
; APPLICANT: Newton, Dianne L.  
; APPLICANT: Boque, Lluis  
; APPLICANT: Wlodawer, Alexander  
; TITLE OF INVENTION: Recombinant Ribonuclease Proteins  
; NUMBER OF SEQUENCES: 64  
; CORRESPONDENCE ADDRESS:

```
/ ADDRESS: Townsend and Townsend and Crew LLP
/ STREET: Two Embarcadero Center, Eighth Floor
/ CITY: San Francisco
/ STATE: California
/ COUNTRY: USA
/ ZIP: 94111-3834
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: Patent In Release #1.0, Version #1.30
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/875,811
/ FILING DATE: 19-FEB-1998
/ CLASSIFICATION: 435
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: WO PCT/US97/02588
/ FILING DATE: 19-FEB-1997
/ APPLICATION DATA:
/ APPLICATION NUMBER: US 60/011,800
/ FILING DATE: 21-FEB-1996
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Faris, Susan K.
/ REGISTRATION NUMBER: 41,739
/ REFERENCE/DOCKET NUMBER: 015280-244100US
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (415) 576-0200
/ TELEFAX: (415) 576-0300
/ INFORMATION FOR SEQ ID NO: 61:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 254 amino acids
/ TYPE: amino acid
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
/ US-08-875-811-61

Query Match          93.8%; Score 544; DB 3; Length 254;
Best Local Similarity 93.3%; Pred. No. 7.5e-59;
Matches 98; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 1 MQDWLTFQKKHLTNRDVCNNILSTNLFHCKDKNTFTYSRPEPVKAICKGHIASKNVLT 60
DB 1 MSDWLTFOKKHITNRDVCDDNIMSTNLFHCKDKNTFTYSRPEPVKAICKGHIASKNVLT 60

QY 61 TSEFYLSDCNVTSPCKYKLLKSTITFCVTCENQAPVHFVGVGHC 105
DB 61 TSEFYLSDCNVTSPCKYKLLKSTNKFCVTCENQAPVHFVGVGSC 105

RESULT 13
US-08-875-811-49
/ Sequence 49, Application US/08875811
/ Patent No. 6045793
/ GENERAL INFORMATION:
/ APPLICANT: Rybak, Susanna M.
/ APPLICANT: Newton, Dianne L.
/ APPLICANT: Boque, Lluís
/ APPLICANT: Wlodawer, Alexander
/ TITLE OF INVENTION: Recombinant Ribonuclease Proteins
/ NUMBER OF SEQUENCES: 64
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: Townsend and Townsend and Crew LLP
/ STREET: Two Embarcadero Center, Eighth Floor
/ CITY: San Francisco
/ STATE: California
/ COUNTRY: USA
/ ZIP: 94111-3834
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: Patent In Release #1.0, Version #1.30
/ CURRENT APPLICATION DATA:
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/ APPLICATION NUMBER: US/08/875,811
/ FILING DATE: 19-FEB-1998
/ CLASSIFICATION: 435
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: WO PCT/US97/02588
/ FILING DATE: 19-FEB-1997
/ APPLICATION DATA:
/ APPLICATION NUMBER: US 60/011,800
/ FILING DATE: 21-FEB-1996
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Faris, Susan K.
/ REGISTRATION NUMBER: 41,739
/ REFERENCE/DOCKET NUMBER: 015280-244100US
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (415) 576-0200
/ TELEFAX: (415) 576-0300
/ INFORMATION FOR SEQ ID NO: 49:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 355 amino acids
/ TYPE: amino acid
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
/ US-08-875-811-49

Query Match          93.8%; Score 544; DB 3; Length 355;
Best Local Similarity 93.3%; Pred. No. 1.2e-58;
Matches 98; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 1 MQDWLTFQKKHLTNRDVCNNILSTNLFHCKDKNTFTYSRPEPVKAICKGHIASKNVLT 60
DB 251 MSDWLTFOKKHITNRDVCDDNIMSTNLFHCKDKNTFTYSRPEPVKAICKGHIASKNVLT 310

QY 61 TSEFYLSDCNVTSPCKYKLLKSTITFCVTCENQAPVHFVGVGHC 105
DB 311 TSEFYLSDCNVTSPCKYKLLKSTNKFCVTCENQAPVHFVGVGSC 355

RESULT 14
US-08-875-811-57
/ Sequence 57, Application US/08875811
/ Patent No. 6045793
/ GENERAL INFORMATION:
/ APPLICANT: Rybak, Susanna M.
/ APPLICANT: Newton, Dianne L.
/ APPLICANT: Boque, Lluís
/ APPLICANT: Wlodawer, Alexander
/ TITLE OF INVENTION: Recombinant Ribonuclease Proteins
/ NUMBER OF SEQUENCES: 64
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: Townsend and Townsend and Crew LLP
/ STREET: Two Embarcadero Center, Eighth Floor
/ CITY: San Francisco
/ STATE: California
/ COUNTRY: USA
/ ZIP: 94111-3834
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: Patent In Release #1.0, Version #1.30
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/875,811
/ FILING DATE: 19-FEB-1998
/ CLASSIFICATION: 435
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: WO PCT/US97/02588
/ FILING DATE: 19-FEB-1997
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 60/011,800
/ FILING DATE: 21-FEB-1996
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Faris, Susan K.
/ REGISTRATION NUMBER: 41,739
```



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;
; REFERENCE/DOCKET NUMBER: 015280-244100US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 576-0200
; TELEFAX: (415) 576-0300
; INFORMATION FOR SEQ ID NO: 57:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 355 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-875-811-57

Query Match          93.8%; Score 544; DB 3; Length 355;
Best Local Similarity 93.3%; Pred. No. 1.2e-58;
Matches 98; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

Qy 1 MQDWLTFQKKHLNTRDVCNNILSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60
Db 1 MSDWLTTFQKKHITNTRDVCDDNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60
Qy 61 TSEFVLSDCNVTSPCKYKLLKSTITFCVTCENQAPVHFVGVGHC 105
Db 61 TSEFVLSDCNVTSPCKYKLLKSTNKFCVTCENQAPVHFVGVGSC 105

RESULT 15
US-08-875-811-64
; Sequence 64, Application US/08875811
; Patent No. 6045793
; GENERAL INFORMATION:
; APPLICANT: Rybak, Susanna M.
; APPLICANT: Newton, Dianne L.
; APPLICANT: Boque, Lluís
; APPLICANT: Wlodawer, Alexander
; TITLE OF INVENTION: Recombinant Ribonuclease Proteins
; NUMBER OF SEQUENCES: 64
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, Eighth Floor
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/875,811
; FILING DATE: 19-FEB-1998
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: WO PCT/US97/02588
; FILING DATE: 19-FEB-1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/011,800
; FILING DATE: 21-FEB-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Faris, Susan K.
; REGISTRATION NUMBER: 41,739
; REFERENCE/DOCKET NUMBER: 015280-244100US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 576-0200
; TELEFAX: (415) 576-0300
; INFORMATION FOR SEQ ID NO: 64:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 355 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
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; NAME/KEY: Protein
; LOCATION: 1..355
; OTHER INFORMATION: /note= "E6PB[Met-(-1)]SerrOnc"
US-08-875-811-64

Query Match          93.8%; Score 544; DB 3; Length 355;
Best Local Similarity 93.3%; Pred. No. 1.2e-58;
Matches 98; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

Qy 1 MQDWLTFQKKHLNTRDVCNNILSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60
Db 251 MSDWLTTFQKKHITNTRDVCDDNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 310
Qy 61 TSEFVLSDCNVTSPCKYKLLKSTITFCVTCENQAPVHFVGVGHC 105
Db 311 TSEFVLSDCNVTSPCKYKLLKSTNKFCVTCENQAPVHFVGVGSC 355

Search completed: October 19, 2004, 09:24:44
Job time : 23.8589 secs
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GenCore version 5.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: October 19, 2004, 09:04:37 ; Search time 69.8325 Seconds  
(without alignments)  
486.141 Million cell updates/sec

Title: US-09-622-613C-8

Perfect score: 580

Sequence: 1 MQDWLTQKXHLNTRDVC.....TFVCVCNQAPVHFVGVC 105

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1360919 seqs, 323318874 residues

Total number of hits satisfying chosen parameters: 1360919

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:\*

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19: /cgn2\_6/ptodata/1/pubpa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Result No.	Score	Match	Length	ID	Description
1	574	99.0	105	10	US-09-948-391A-8
2	574	99.0	111	10	US-09-948-391A-9
3	573	98.8	111	10	US-09-961-400-9
4	571	98.4	105	10	US-09-948-391A-6
5	571	98.4	105	10	US-09-961-400-6
6	566	97.6	104	10	US-09-961-400-2
7	566	97.6	105	10	US-09-948-391A-13
8	566	97.6	105	10	US-09-961-400-13
9	566	97.6	127	10	US-09-948-391A-28
10	566	97.6	127	10	US-09-961-400-28
11	563	97.1	105	10	US-09-961-400-8
12	562	96.9	104	10	US-09-948-391A-4
13	562	96.9	104	10	US-09-961-400-4
14	561	96.7	104	10	US-09-948-391A-11

Sequence 11, Appl  
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Sequence 9, Appl  
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Sequence 1, Appl  
Sequence 5, Appl  
Sequence 3, Appl  
Sequence 3, Appl  
Sequence 21, Appl  
Sequence 21, Appl  
Sequence 22, Appl  
Sequence 17, Appl  
Sequence 19, Appl  
Sequence 15, Appl  
Sequence 15, Appl  
Sequence 26, Appl  
Sequence 17, Appl  
Sequence 19, Appl  
Sequence 24, Appl  
Sequence 24, Appl  
Sequence 2, Appl  
Sequence 139, Appl  
Sequence 89, Appl  
Sequence 34, Appl  
Sequence 5, Appl  
Sequence 103, Appl

US-09-948-391A-8

Query Match 99.0%; Score 574; DB 10; Length 105;  
Best Local Similarity 99.0%; Pred. No. 2.4e-56;  
Matches 104; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

1 MQDWLTQKXHLNTRDVCNIIITNLFCKDKNTFYSPPEVKAICKGIASKNVLT 60

# ALIGNMENTS

## RESULT 1

US-09-948-391A-8  
; Sequence 8, Application US/09948391A  
; Publication No. US20030027311A1  
; GENERAL INFORMATION:  
; APPLICANT: Rybak, Susanna M.  
; APPLICANT: Newton, Dianne L.  
; APPLICANT: The United States of America  
; APPLICANT: as represented by The Secretary of the  
; APPLICANT: Department of Health and Human Services  
; TITLE OF INVENTION: Recombinant Anti-Tumor RNase  
; FILE REFERENCE: 015280-343110US  
; CURRENT APPLICATION NUMBER: US/09/948,391A  
; CURRENT FILING DATE: 2002-05-10  
; PRIOR APPLICATION NUMBER: US 60/079,751  
; PRIOR FILING DATE: 1998-03-27  
; PRIOR APPLICATION NUMBER: WO PCT/US99/06641  
; PRIOR FILING DATE: 1999-03-26  
; PRIOR APPLICATION NUMBER: US 09/622,613  
; PRIOR FILING DATE: 2000-08-17  
; NUMBER OF SEQ ID NOS: 43  
; SOFTWARE: Patent in Ver. 2.0  
; SEQ ID NO 8  
; LENGTH: 105  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Rana pipiens  
; OTHER INFORMATION: ribonuclease with Met at position 1 and Met24Leu  
; OTHER INFORMATION: substitution (recombinant Met(-1) RnPLR1 Met23Leu)

Db 1 M QDWLTFOKKHLTNRDVCNNILSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60  
Qy 61 TSEFYLSDCNVTSRCKYKLLKXSTITFCVTCENQAPVHFVGVGHC 105  
Db 61 TFEFYLSDCNVTSRCKYKLLKXSTITFCVTCENQAPVHFVGVGHC 105

RESULT 2  
US-09-948-391A-9  
; Sequence 9, Application US/09948391A  
; Publication No. US20030027311A1  
; GENERAL INFORMATION:  
; APPLICANT: Rybak, Susanna M.  
; APPLICANT: Newton, Dianne L.  
; APPLICANT: The United States of America  
; APPLICANT: as represented by The Secretary of the  
; APPLICANT: Department of Health and Human Services  
; TITLE OF INVENTION: Recombinant Anti-Tumor RNase  
; FILE REFERENCE: 015280-343110US  
; CURRENT APPLICATION NUMBER: US/09/948,391A  
; CURRENT FILING DATE: 2002-05-10  
; PRIOR APPLICATION NUMBER: US 60/079,751  
; PRIOR FILING DATE: 1998-03-27  
; PRIOR APPLICATION NUMBER: WO PCT/US99/06641  
; PRIOR FILING DATE: 1999-03-26  
; PRIOR APPLICATION NUMBER: US 09/622,613  
; PRIOR FILING DATE: 2000-08-17  
; NUMBER OF SEQ ID NOS: 43  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 9  
; LENGTH: 111  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence:Rana pipiens  
; OTHER INFORMATION: ribonuclease with (His)6 tag, Met at position 7  
; OTHER INFORMATION: and Met30Leu substitution (recombinant Met(-1)  
; OTHER INFORMATION: RapLR1 Met23Leu-(His)6)  
US-09-948-391A-9

Query Match 99.0%; Score 574; DB 10; Length 111;  
Best Local Similarity 99.0%; Pred. No. 2.6e-56;  
Matches 104; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
Qy 1 M QDWLTFOKKHLTNRDVCNNILSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60  
Db 7 M QDWLTFOKKHLTNRDVCNNILSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 66  
Qy 61 TSEFYLSDCNVTSRCKYKLLKXSTITFCVTCENQAPVHFVGVGHC 105  
Db 67 TFEFYLSDCNVTSRCKYKLLKXSTITFCVTCENQAPVHFVGVGHC 111

RESULT 3  
US-09-961-400-9  
; Sequence 9, Application US/09961400  
; Publication No. US20030124131A1  
; GENERAL INFORMATION:  
; APPLICANT: RYBAK, SUSANNA M.  
; APPLICANT: NEWTON, DIANNE L.  
; APPLICANT: GOLDENBERG, DAVID M.  
; TITLE OF INVENTION: IMMUNOCONJUGATES OF TOXINS DIRECTED AGAINST MALIGNANT  
; TITLE OF INVENTION: CELLS  
; FILE REFERENCE: 018733/1059  
; CURRENT APPLICATION NUMBER: US/09/961,400  
; CURRENT FILING DATE: 2001-09-25  
; PRIOR APPLICATION NUMBER: 09/622,613  
; PRIOR FILING DATE: 2000-08-17  
; PRIOR APPLICATION NUMBER: PCT/US99/06641  
; PRIOR FILING DATE: 1999-03-26  
; PRIOR APPLICATION NUMBER: 60/079,751  
; PRIOR FILING DATE: 1998-03-26

; NUMBER OF SEQ ID NOS: 43  
; SEQ ID NO 9  
; LENGTH: 111  
; TYPE: PRT  
; ORGANISM: Rana pipiens  
US-09-961-400-9

Query Match 98.8%; Score 573; DB 10; Length 111;  
Best Local Similarity 99.0%; Pred. No. 3.3e-56;  
Matches 104; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
Qy 1 M QDWLTFOKKHLTNRDVCNNILSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60  
Db 7 M QDWLTFOKKHLTNRDVCNNILSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 66  
Qy 61 TSEFYLSDCNVTSRCKYKLLKXSTITFCVTCENQAPVHFVGVGHC 105  
Db 67 TSEFYLSDCNVTSRCKYKLLKXSTITFCVTCENQAPVHFVGVGHC 111

RESULT 4  
US-09-948-391A-6  
; Sequence 6, Application US/09948391A  
; Publication No. US20030027311A1  
; GENERAL INFORMATION:  
; APPLICANT: Rybak, Susanna M.  
; APPLICANT: Newton, Dianne L.  
; APPLICANT: The United States of America  
; APPLICANT: as represented by The Secretary of the  
; APPLICANT: Department of Health and Human Services  
; TITLE OF INVENTION: Recombinant Anti-Tumor RNase  
; FILE REFERENCE: 015280-343110US  
; CURRENT APPLICATION NUMBER: US/09/948,391A  
; CURRENT FILING DATE: 2002-05-10  
; PRIOR APPLICATION NUMBER: US 60/079,751  
; PRIOR FILING DATE: 1998-03-27  
; PRIOR APPLICATION NUMBER: WO PCT/US99/06641  
; PRIOR FILING DATE: 1999-03-26  
; PRIOR APPLICATION NUMBER: US 09/622,613  
; PRIOR FILING DATE: 2000-08-17  
; NUMBER OF SEQ ID NOS: 43  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 6  
; LENGTH: 105  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence:Rana pipiens  
; OTHER INFORMATION: ribonuclease with Met at position 1 (recombinant  
; OTHER INFORMATION: Met(-1) RapLR1)  
US-09-948-391A-6

Query Match 98.4%; Score 571; DB 10; Length 105;  
Best Local Similarity 98.1%; Pred. No. 5.2e-56;  
Matches 103; Conservative 1; Mismatches 1; Indels 0; Gaps 0;  
Qy 1 M QDWLTFOKKHLTNRDVCNNILSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60  
Db 1 M QDWLTFOKKHLTNRDVCNNILSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60  
Qy 61 TSEFYLSDCNVTSRCKYKLLKXSTITFCVTCENQAPVHFVGVGHC 105  
Db 67 TSEFYLSDCNVTSRCKYKLLKXSTITFCVTCENQAPVHFVGVGHC 105

RESULT 5  
US-09-961-400-6  
; Sequence 6, Application US/09961400  
; Publication No. US20030124131A1  
; GENERAL INFORMATION:  
; APPLICANT: RYBAK, SUSANNA M.  
; APPLICANT: GOLDENBERG, DAVID M.

```

; APPLICANT: NEWTON, DIANNE L.
; TITLE OF INVENTION: IMMUNOCONJUGATES OF TOXINS DIRECTED AGAINST MALIGNANT
; FILE OF INVENTION: CELLS
; FILE REFERENCE: 018733/1059
; CURRENT APPLICATION NUMBER: US/09/961,400
; CURRENT FILING DATE: 2001-09-25
; PRIOR APPLICATION NUMBER: 09/622,613
; PRIOR FILING DATE: 2000-08-17
; PRIOR APPLICATION NUMBER: PCT/US99/06641
; PRIOR FILING DATE: 1999-03-26
; PRIOR APPLICATION NUMBER: 60/079,751
; PRIOR FILING DATE: 1998-03-26
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 105
; TYPE: PRT
; ORGANISM: Rana pipiens
US-09-961-400-6

Query Match          98.4%; Score 571; DB 10; Length 105;
Best Local Similarity 98.1%; Pred. No. 5.2e-56;
Matches 103; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 QDWLTFOKKHLTNTRDVCNNILSTNLFHCKDKNTFYSRPEPVKAICKGIIASKNVLT 60
DB 1 QDWLTFOKKHLTNTRDVCNNIMSTNLFHCKDKNTFYSRPEPVKAICKGIIASKNVLT 60

QY 61 TSEFVSDCNVTSRCPCKYKLKSTTFCVTCENQAPVHFVGVGHC 105
DB 61 TSEFVSDCNVTSRCPCKYKLKSTTFCVTCENQAPVHFVGVGHC 105

RESULT 6
US-09-961-400-2
; Sequence 2, Application US/09961400
; Publication No. US20030124131A1
; GENERAL INFORMATION:
; APPLICANT: RYBAK, SUSANNA M.
; APPLICANT: GOLDENBERG, DAVID M.
; TITLE OF INVENTION: IMMUNOCONJUGATES OF TOXINS DIRECTED AGAINST MALIGNANT
; TITLE OF INVENTION: CELLS
; FILE REFERENCE: 018733/1059
; CURRENT APPLICATION NUMBER: US/09/961,400
; CURRENT FILING DATE: 2001-09-25
; PRIOR APPLICATION NUMBER: 09/622,613
; PRIOR FILING DATE: 2000-08-17
; PRIOR APPLICATION NUMBER: PCT/US99/06641
; PRIOR FILING DATE: 1999-03-26
; PRIOR APPLICATION NUMBER: 60/079,751
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 104
; TYPE: PRT
; ORGANISM: Rana pipiens
US-09-961-400-2

Query Match          97.6%; Score 566; DB 10; Length 104;
Best Local Similarity 98.1%; Pred. No. 1.9e-55;
Matches 102; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 QDWLTFOKKHLTNTRDVCNNILSTNLFHCKDKNTFYSRPEPVKAICKGIIASKNVLT 61
DB 1 QDWLTFOKKHLTNTRDVCNNIMSTNLFHCKDKNTFYSRPEPVKAICKGIIASKNVLT 60

QY 62 SEFVLSDCNVTSRCPCKYKLKSTTFCVTCENQAPVHFVGVGHC 105
DB 61 SEFVLSDCNVTSRCPCKYKLKSTTFCVTCENQAPVHFVGVGHC 104
```

```

RESULT 7
US-09-948-391A-13
; Sequence 13, Application US/09948391A
; Publication No. US20030027311A1
; GENERAL INFORMATION:
; APPLICANT: RYBAK, SUSANNA M.
; APPLICANT: NEWTON, DIANNE L.
; APPLICANT: The United States of America
; APPLICANT: as represented by The Secretary of the
; APPLICANT: Department of Health and Human Services
; TITLE OF INVENTION: Recombinant Anti-Tumor RNase
; FILE REFERENCE: 015280-343110US
; CURRENT APPLICATION NUMBER: US/09/948,391A
; CURRENT FILING DATE: 2002-05-10
; PRIOR APPLICATION NUMBER: US 60/079,751
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: WO PCT/US99/06641
; PRIOR FILING DATE: 1999-03-26
; PRIOR APPLICATION NUMBER: US 09/622,613
; PRIOR FILING DATE: 2000-08-17
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 13
; LENGTH: 105
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Rana pipiens
; OTHER INFORMATION: ribonuclease with Met at position 1 and Gln2Ser
; OTHER INFORMATION: substitution (recombinant Met(-1) RaPLR1 Q1S)
US-09-948-391A-13

Query Match          97.6%; Score 566; DB 10; Length 105;
Best Local Similarity 97.1%; Pred. No. 1.9e-55;
Matches 102; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 QDWLTFOKKHLTNTRDVCNNILSTNLFHCKDKNTFYSRPEPVKAICKGIIASKNVLT 60
DB 1 QDWLTFOKKHLTNTRDVCNNIMSTNLFHCKDKNTFYSRPEPVKAICKGIIASKNVLT 60

QY 61 TSEFVSDCNVTSRCPCKYKLKSTTFCVTCENQAPVHFVGVGHC 105
DB 61 TSEFVSDCNVTSRCPCKYKLKSTTFCVTCENQAPVHFVGVGHC 105

RESULT 8
US-09-961-400-13
; Sequence 13, Application US/09961400
; Publication No. US20030124131A1
; GENERAL INFORMATION:
; APPLICANT: RYBAK, SUSANNA M.
; APPLICANT: GOLDENBERG, DAVID M.
; APPLICANT: NEWTON, DIANNE L.
; TITLE OF INVENTION: IMMUNOCONJUGATES OF TOXINS DIRECTED AGAINST MALIGNANT
; TITLE OF INVENTION: CELLS
; FILE REFERENCE: 018733/1059
; CURRENT APPLICATION NUMBER: US/09/961,400
; CURRENT FILING DATE: 2001-09-25
; PRIOR APPLICATION NUMBER: 09/622,613
; PRIOR FILING DATE: 2000-08-17
; PRIOR APPLICATION NUMBER: PCT/US99/06641
; PRIOR FILING DATE: 1999-03-26
; PRIOR APPLICATION NUMBER: 60/079,751
; PRIOR FILING DATE: 1998-03-26
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 13
; LENGTH: 105
; TYPE: PRT
; ORGANISM: Rana pipiens
US-09-961-400-13

Query Match          97.6%; Score 566; DB 10; Length 105;
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; Best Local Similarity 97.1%; Pred. No. 1.9e-55;
; Matches 102; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 MODWLTFQKKHLTNRDVCNNILSNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60
Db 1 MSDWLTFQKKHLTNRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60

QY 61 TSEFYSDCNVTSRCPCKYKLLKSTITFCVTCENQAPVHFVGVGHC 105
Db 61 TSEFYSDCNVTSRCPCKYKLLKSTNTFCVTCENQAPVHFVGVGHC 105

RESULT 9
US-09-948-391A-28
; Sequence 28, Application US/09948391A
; Publication No. US20030027311A1
; GENERAL INFORMATION:
; APPLICANT: Rybak, Susanna M.
; APPLICANT: Newton, Dianne L.
; APPLICANT: The United States of America
; APPLICANT: as represented by The Secretary of the
; APPLICANT: Department of Health and Human Services
; TITLE OF INVENTION: Recombinant Anti-Tumor RNase
; FILE REFERENCE: 015280-343110US
; CURRENT APPLICATION NUMBER: US/09/948,391A
; CURRENT FILING DATE: 2002-05-10
; PRIOR APPLICATION NUMBER: US 60/079,751
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: WO PCT/US99/06641
; PRIOR FILING DATE: 1999-03-26
; PRIOR APPLICATION NUMBER: US 09/622,613
; PRIOR FILING DATE: 2000-08-17
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 28
; LENGTH: 127
; TYPE: PRT
; ORGANISM: Rana pipiens
; FEATURE:
; OTHER INFORMATION: Rana pipiens ribonuclease (RapLr1) Clone 5a1b cDNA
; OTHER INFORMATION: insert
US-09-948-391A-28

Query Match 97.6%; Score 566; DB 10; Length 127;
Best Local Similarity 98.1%; Pred. No. 2.3e-55;
Matches 102; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 QDWLTFQKKHLTNRDVCNNILSNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 61
Db 24 QDWLTFQKKHLTNRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 83

QY 62 SEFYSDCNVTSRCPCKYKLLKSTITFCVTCENQAPVHFVGVGHC 105
Db 84 SEFYSDCNVTSRCPCKYKLLKSTNTFCVTCENQAPVHFVGVGHC 127

RESULT 10
US-09-961-400-28
; Sequence 28, Application US/09961400
; Publication No. US20030124131A1
; GENERAL INFORMATION:
; APPLICANT: RYBAK, SUSANNA M.
; APPLICANT: GOLDENBERG, DAVID M.
; APPLICANT: NEWTON, DIANNE L.
; TITLE OF INVENTION: IMMUNOCONJUGATES OF TOXINS DIRECTED AGAINST MALIGNANT
; FILE REFERENCE: 018733/1059
; CURRENT APPLICATION NUMBER: US/09/961,400
; CURRENT FILING DATE: 2001-09-25
; PRIOR APPLICATION NUMBER: 09/622,613
; PRIOR FILING DATE: 2000-08-17
; PRIOR APPLICATION NUMBER: PCT/US99/06641
; PRIOR FILING DATE: 1999-03-26
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
; LENGTH: 105
; TYPE: PRT
; ORGANISM: Rana pipiens
; OTHER INFORMATION: Rana pipiens
US-09-961-400-28

Query Match 97.1%; Score 563; DB 10; Length 105;
Best Local Similarity 97.1%; Pred. No. 4.1e-55;
Matches 102; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 MODWLTFQKKHLTNRDVCNNILSNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60
Db 1 QDWLTFQKKHLTNRDVCNNILSNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60

QY 61 TSEFYSDCNVTSRCPCKYKLLKSTITFCVTCENQAPVHFVGVGHC 105
Db 61 TSEFYSDCNVTSRCPCKYKLLKSTNTFCVTCENQAPVHFVGVGHC 105

RESULT 12
US-09-948-391A-4
; Sequence 4, Application US/09948391A
; Publication No. US20030027311A1
; GENERAL INFORMATION:
; APPLICANT: Rybak, Susanna M.
; APPLICANT: Newton, Dianne L.
; APPLICANT: The United States of America
; APPLICANT: as represented by The Secretary of the
; APPLICANT: Department of Health and Human Services
US-09-948-391A-4
```

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; PRIOR APPLICATION NUMBER: 60/079,751
; PRIOR FILING DATE: 1998-03-26
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 28
; LENGTH: 127
; TYPE: PRT
; ORGANISM: Rana pipiens
US-09-961-400-28

Query Match 97.6%; Score 566; DB 10; Length 127;
Best Local Similarity 98.1%; Pred. No. 2.3e-55;
Matches 102; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 QDWLTFQKKHLTNRDVCNNILSNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 61
Db 24 QDWLTFQKKHLTNRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 83

QY 62 SEFYSDCNVTSRCPCKYKLLKSTITFCVTCENQAPVHFVGVGHC 105
Db 84 SEFYSDCNVTSRCPCKYKLLKSTNTFCVTCENQAPVHFVGVGHC 127

RESULT 11
US-09-961-400-8
; Sequence 8, Application US/09961400
; Publication No. US20030124131A1
; GENERAL INFORMATION:
; APPLICANT: RYBAK, SUSANNA M.
; APPLICANT: GOLDENBERG, DAVID M.
; APPLICANT: NEWTON, DIANNE L.
; TITLE OF INVENTION: IMMUNOCONJUGATES OF TOXINS DIRECTED AGAINST MALIGNANT
; TITLE OF INVENTION: CELLS
; FILE REFERENCE: 018733/1059
; CURRENT APPLICATION NUMBER: US/09/961,400
; CURRENT FILING DATE: 2001-09-25
; PRIOR APPLICATION NUMBER: 09/622,613
; PRIOR FILING DATE: 2000-08-17
; PRIOR APPLICATION NUMBER: PCT/US99/06641
; PRIOR FILING DATE: 1999-03-26
; PRIOR APPLICATION NUMBER: 60/079,751
; PRIOR FILING DATE: 1998-03-26
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
; LENGTH: 105
; TYPE: PRT
; ORGANISM: Rana pipiens
US-09-961-400-8

Query Match 97.1%; Score 563; DB 10; Length 105;
Best Local Similarity 97.1%; Pred. No. 4.1e-55;
Matches 102; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 MODWLTFQKKHLTNRDVCNNILSNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60
Db 1 QDWLTFQKKHLTNRDVCNNILSNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLT 60

QY 61 TSEFYSDCNVTSRCPCKYKLLKSTITFCVTCENQAPVHFVGVGHC 105
Db 61 TSEFYSDCNVTSRCPCKYKLLKSTNTFCVTCENQAPVHFVGVGHC 105

RESULT 12
US-09-948-391A-4
; Sequence 4, Application US/09948391A
; Publication No. US20030027311A1
; GENERAL INFORMATION:
; APPLICANT: Rybak, Susanna M.
; APPLICANT: Newton, Dianne L.
; APPLICANT: The United States of America
; APPLICANT: as represented by The Secretary of the
; APPLICANT: Department of Health and Human Services
US-09-948-391A-4
```

```
; TITLE OF INVENTION: Recombinant Anti-Tumor RNase
; FILE REFERENCE: 015280-343110US
; CURRENT APPLICATION NUMBER: US/09/948,391A
; CURRENT FILING DATE: 2002-05-10
; PRIOR APPLICATION NUMBER: US 60/079,751
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: WO PCT/US99/06641
; PRIOR FILING DATE: 1999-03-26
; PRIOR APPLICATION NUMBER: US 09/622,613
; PRIOR FILING DATE: 2000-08-17
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 104
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Rana pipiens
; OTHER INFORMATION: ribonuclease with Met23Leu substitution
; OTHER INFORMATION: (recombinant RaPLR1 Met23Leu)
US-09-948-391A-4

Query Match          96.9%; Score 562; DB 10; Length 104;
Best Local Similarity 98.1%; Pred. No. 5.2e-55;
Matches 102; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      2 QDWLTFQKKHLTNRDVCNNILSTNLFHCKDKNTFYSRPEPVKAICKGIIASKNVLT 61
Db      1 QDWLTFQKKHLTNRDVCNNILSTNLFHCKDKNTFYSRPEPVKAICKGIIASKNVLT 60

Qy      62 SEFYLSDCNVTSRPCKYKLLKSTTFFCVTCENQAPVHFVGVGHC 105
Db      61 FEYLSDCNVTSRPCKYKLLKSTTFFCVTCENQAPVHFVGVGHC 104

RESULT 13
US-09-961-400-4
; Sequence 4, Application US/09961400
; Publication No. US20030124131A1
; GENERAL INFORMATION:
; APPLICANT: RYBAK, SUSANNA M.
; APPLICANT: GOLDENBERG, DAVID M.
; APPLICANT: NEWTON, DIANNE L.
; TITLE OF INVENTION: IMMUNOCONJUGATES OF TOXINS DIRECTED AGAINST MALIGNANT
; TITLE OF INVENTION: CELLS
; FILE REFERENCE: 018733/1059
; CURRENT APPLICATION NUMBER: US/09/961,400
; CURRENT FILING DATE: 2001-09-25
; PRIOR APPLICATION NUMBER: 09/622,613
; PRIOR FILING DATE: 2000-08-17
; PRIOR APPLICATION NUMBER: PCT/US99/06641
; PRIOR FILING DATE: 1999-03-26
; PRIOR APPLICATION NUMBER: 60/079,751
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 104
; TYPE: PRT
; ORGANISM: Rana pipiens
US-09-961-400-4

Query Match          96.9%; Score 562; DB 10; Length 104;
Best Local Similarity 98.1%; Pred. No. 5.2e-55;
Matches 102; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      2 QDWLTFQKKHLTNRDVCNNILSTNLFHCKDKNTFYSRPEPVKAICKGIIASKNVLT 61
Db      1 QDWLTFQKKHLTNRDVCNNILSTNLFHCKDKNTFYSRPEPVKAICKGIIASKNVLT 60

Qy      62 SEFYLSDCNVTSRPCKYKLLKSTTFFCVTCENQAPVHFVGVGHC 105
Db      61 FEYLSDCNVTSRPCKYKLLKSTTFFCVTCENQAPVHFVGVGHC 104
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RESULT 14
US-09-948-391A-11
; Sequence 11, Application US/09948391A
; Publication No. US20030027311A1
; GENERAL INFORMATION:
; APPLICANT: Rybak, Susanna M.
; APPLICANT: Newton, Dianne L.
; APPLICANT: The United States of America
; APPLICANT: as represented by The Secretary of the
; APPLICANT: Department of Health and Human Services
; TITLE OF INVENTION: Recombinant Anti-Tumor RNase
; FILE REFERENCE: 015280-343110US
; CURRENT APPLICATION NUMBER: US/09/948,391A
; CURRENT FILING DATE: 2002-05-10
; PRIOR APPLICATION NUMBER: US 60/079,751
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: WO PCT/US99/06641
; PRIOR FILING DATE: 1999-03-26
; PRIOR APPLICATION NUMBER: US 09/622,613
; PRIOR FILING DATE: 2000-08-17
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 11
; LENGTH: 104
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Rana pipiens
; OTHER INFORMATION: ribonuclease with Glu1Ser substitution
; OTHER INFORMATION: (recombinant RaPLR1 Q1S)
US-09-948-391A-11

Query Match          96.7%; Score 561; DB 10; Length 104;
Best Local Similarity 98.1%; Pred. No. 6.7e-55;
Matches 101; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy      3 DWLTFQKKHLTNRDVCNNILSTNLFHCKDKNTFYSRPEPVKAICKGIIASKNVLT 62
Db      2 DWLTFQKKHLTNRDVCNNILSTNLFHCKDKNTFYSRPEPVKAICKGIIASKNVLT 61

Qy      63 EFYLSDCNVTSRPCKYKLLKSTTFFCVTCENQAPVHFVGVGHC 105
Db      62 EFYLSDCNVTSRPCKYKLLKSTTFFCVTCENQAPVHFVGVGHC 104

RESULT 15
US-09-961-400-11
; Sequence 11, Application US/09961400
; Publication No. US20030124131A1
; GENERAL INFORMATION:
; APPLICANT: RYBAK, SUSANNA M.
; APPLICANT: GOLDENBERG, DAVID M.
; APPLICANT: NEWTON, DIANNE L.
; TITLE OF INVENTION: IMMUNOCONJUGATES OF TOXINS DIRECTED AGAINST MALIGNANT
; TITLE OF INVENTION: CELLS
; FILE REFERENCE: 018733/1059
; CURRENT APPLICATION NUMBER: US/09/961,400
; CURRENT FILING DATE: 2001-09-25
; PRIOR APPLICATION NUMBER: 09/622,613
; PRIOR FILING DATE: 2000-08-17
; PRIOR APPLICATION NUMBER: PCT/US99/06641
; PRIOR FILING DATE: 1999-03-26
; PRIOR APPLICATION NUMBER: 60/079,751
; PRIOR FILING DATE: 1998-03-26
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 11
; LENGTH: 104
; TYPE: PRT
; ORGANISM: Rana pipiens
US-09-961-400-11
```

Query Match 96.7%; Score 561; DB 10; Length 104;  
Best Local Similarity 98.1%; Pred. No. 6.7e-55;  
Matches 101; Conservative 1; Mismatches 1; Indels 0; Gaps 0;  
QY 3 DMLTFQKKHLTNTRDVCNNILSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLTTTS 62  
Db |||||:|||||  
QY 2 DMLTFQKKHLTNTRDVCNNIMSTNLFHCKDKNTFIYSRPEPVKAICKGIIASKNVLTTTS 61  
Db |||||:|||||  
QY 63 EFYLSDCNVTSPCKYKLLKSTITPCVTCENQAPVHFVGVC 105  
Db |||||:|||||  
QY 62 EFYLSDCNVTSPCKYKLLKSTITPCVTCENQAPVHFVGVC 104  
Db |||||:|||||

Search completed: October 19, 2004, 09:23:06  
Job time : 70.0825 secs